Service Manua

dbx/Dolby NR Equipped Stereo Cassette Deck

Stereo cassette deck

RS-B6081

DOLBY B.C NR HX PRO



Color

(S) ... Silver Type (K) ... Black Type

Area

Color	Area Marea
(S) (K)	(E) Continental Europe.
(S) (K)	(EK) United Kingdom.
(S) (K)	(EG) F.R. Germany.
(S) (K)	(EH) Holland.
(S) (K)	(XA) Asia, Latin
	America, Middle
	Near East, Africa
	and Oceania.
(S) (K)	(XL) Australia.
(S) (K)	(XB) Saudi Arabia.

SPECIFICATIONS

CASSETTE DECK SECTION

Deck system Track system 4-track, 2-channel Heads Solid Permalloy head REC/PLAY Erasing Double-gap ferrite head Motors Recording system 80 kHz Bias frequency AC erase Erasing system 4.8 cm/sec. (1-7/8 ips) Tape speed Frequency response METAL 20 Hz~19 kHz 30 Hz~18 kHz (DIN) 20 Hz~18 kHz CrO2 30 Hz~17 kHz (DIN) 20 Hz~17 kHz NORMAL 30 Hz~16 kHz (DIN) 110 dB (1 kHz) Dynamic Range (with dbx on) Max. Input level improvement (with dbx on) 10 dB S/N (signal level = max recording level, CrO₂ type tape) 92 dB (A weighted) dbx on 74 dB (CCIR) Dolby C NR on 66 dB (CCIR) Dolby B NR on NR off 56 dB (A weighted) Wow and flutter

0.08% (WRMS) ±0.2% (DIN)

Fast Forward and Rewind Time

Approx. 100 seconds with C-60 cassette tape

Input sensitivity and impedance

0.25 mV/400 Ω ~10 kΩ MIC $60 \text{ mV}/47 \text{ k}\Omega$ LINE Output voltage and impedance $400 \text{ mV/3 k}\Omega$ LINE

HEADPHONES 30 mV/8 Ω

GENERAL

Power consumption Power supply

4.3 kg (9.5 lb.)

22W

For continental Europe

AC 50 Hz/60 Hz, 220V

For United Kingdom and others

AC 50 Hz/60 Hz, 110V/127V/220V/240V 430 × 114.5 × 287 mm

Dimensions (W×H×D)

Weight

 $(16-15/16" \times 4-1/2" \times 11-5/16")$

Specifications are subject to change without notice. Weight and dimensions are approximate.

* HX Pro headroom extension originated by Bang Olufsen and manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY", the double-D symbol, and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

** The term dbx is a registered trademark of dbx Inc.

Technics

Matsushita Electric Industrial Co., Ltd.

Central P.O. Box 288, Osaka 530-91, Japan

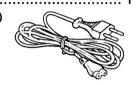
CONTENTS

	rage
Accessories	2
How to Connection	2
Location of Controls	3
Disassembly Instructions	4, 5
• Measurement and Adjustment Methodes	
Microcomputer Terminal Function	9~13
 Terminal Guide of IC's, 	
Transistors and Diodes	13
Resistors & Capacitors	14~16
Printed Circuit Boards	17~20

	F	:Aa
Wiring Connection Diagram		21
Schematic Diagram		
Block Diagram		
• Replacement Parts List (Electrical Parts)		
Mechanical Parts Location		
• Replacement Parts List (Mechanical Parts)		
Cabinet Parts Location		
Replacement Parts List (Cabinet,	•	
Packings and Accessories Parts)		20

ACCESSORIES

• AC power supply cord 1 SJA171 (E, EH, EG) SFDAC05G02 (EK) **SJA173** (XL) SJA168-1 **SJA183** (XB) **SJA170** (MC)



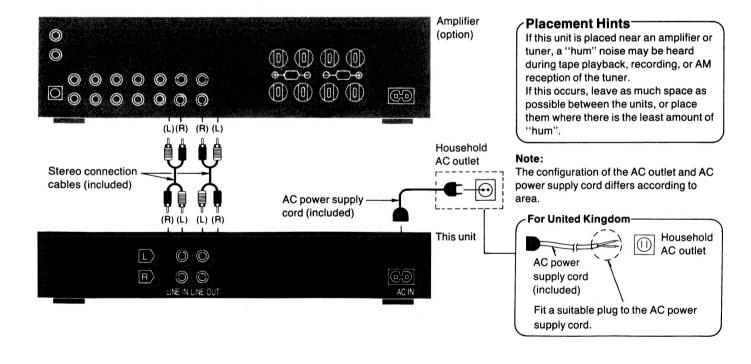
 Stereo connection cables...... 2 (SJP2264)



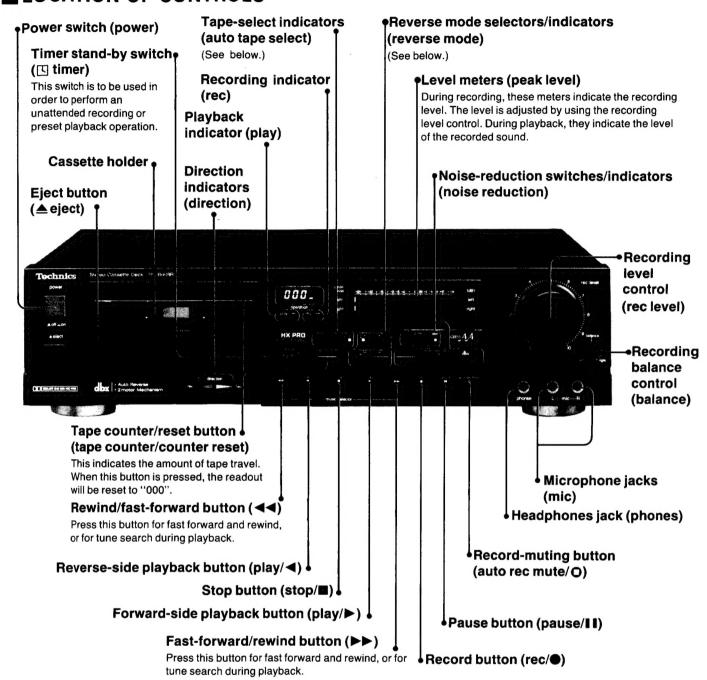


Note: Configuration of AC power supply cord differs according to area.

HOW TO CONNECTION



■ LOCATION OF CONTROLS



Reverse mode selectors

• One-way mode (\(\Z\))...

The playback (or recording) is of the forward side or reverse side only. (The tape automatically stops when it reaches either end.)

• Continuous mode (⇔)...

When this mode is selected during playback, 8 complete plays (forward and reverse), or in other words 15 automatic-reverse operations, are possible.

If this continuous mode is used for recording, there will be one complete round-trip of the tape if the recording is started from the "forward" side; if the recording is started from the "reverse" side however, the recording will stop at the end of the "reverse" side; the tape will not automatically reverse to thereafter record on the "forward" side.

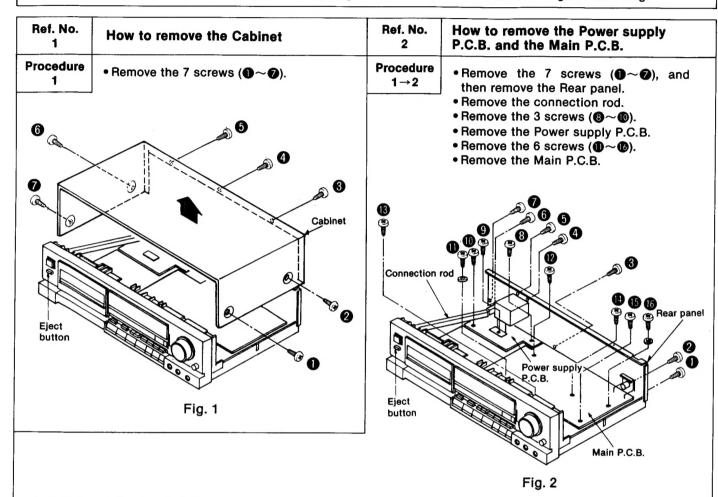
Automatic tape selector system

This cassette deck automatically detects the type of tape being used, and adjusts for the proper bias and equalization. The tape-select indicator indicates the type of tape being used. "Metal" lights when no tape has been loaded in the cassette holder.

DISASSEMBLY INSTRUCTIONS

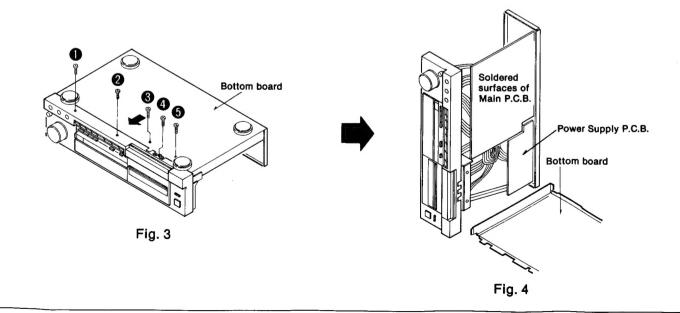
"ATTENTION SERVICER"

Some chassis components may have sharp edges. Be careful when disassembling and servicing.



How to check the Main P.C.B.

- When checking the soldered surfaces of Main P.C.B. and replacing the parts, do as shown.
 - 1. Remove the Main P.C.B. and Power supply P.C.B.
- 2. Remove the 5 screws (1~5), and then remove the Bottom board.



How to remove the Volume/Meter Ref. No. Ref. No. How to remove the mechanism unit P.C.B. **Procedure** Procedure • Pull out the rec. level control knob and • Remove the 4 screws (1~4). $1\rightarrow2\rightarrow3$ $1\rightarrow2\rightarrow5$ the nut. • Remove the 4 screws (5~3). • Pull out the balance control knob. · Push the eject button and remove the • Remove the 3 screws (●~❸). mechanism unit. • Release the 2 tabs, and then remove the Volume/Meter P.C.B. Rec. level control knob **6** Balance control knob Volume/Meter P.C.B. Fig. 7 Fig. 5 Ref. No. How to remove the Operation P.C.B. and the Jack P.C.B. Mechanism unit-® **Procedure** • Remove the 3 screws (1 ~ 3). $1 \rightarrow 2 \rightarrow 3 \rightarrow 4$ • Release the 5 tabs, and then remove Fig. 8 the Operation P.C.B. • Remove the 2 screws (4, 5), and then Ref. No. How to remove the Holder P.C.B. remove the Jack P.C.B. 6 **Procedure** • Remove the cassette lid. 6 • Release the 2 tabs, and then remove Tab the Holder P.C.B. Operation P.C.B. Tabs Jack P.C.B. Holder P.C.B Fig. 6 Fig. 9

MEASUREMENT AND ADJUSTMENT METHODES

Measurement Condition

- · Rec. level control; Maximum
- Timer stand-by switch: Off
- · Noise reduction select switch; Off

Measuring instrument

- EVM(Electronic Voltmeter)
- Oscilloscope
- Digital frequency counter
- AF oscillator

Test tape

- Head azimuth adjustment (8kHz, -20dB); QZZCFM
- Tape speed adjustment (3kHz, -10dB); QZZCWAT
- Playback frequency response (315Hz, 12.5kHz, 10kHz, 8kHz, 4kHz, 1kHz, 250Hz, 125Hz, 63Hz, -20dB); QZZCFM

- Balance control; Center
- Make sure heads are clean
- Make sure capstan and pressure roller are clean
- Judgeable room temperature 20±5°C(68±9°F)
- ATT(Attenuator)
- DC voltmeter
- Resistor (600Ω)
- Playback gain adjustment (315Hz, 0dB); QZZCFM
- Overall frequency response, Overall gain adjustment Normal reference blank tape; QZZCRA CrO2 reference blank tape; QZZCRX Metal reference blank tape; QZZCRZ

HEAD AZIMUTH ADJUSTMENT

- 1.Playback the azimuth adjusment portion (8 kHz, -20 dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the outputs of the L-CH and R-CH are maximized and the lissajous waveform, as illustrated, approaches 0 degrees.
- **Note:** If L-CH and R-CH are not maximized at the same point, adjust to the point where the levels of each channel are maximized and equal.
- 2.Perform the same adjustment in the play mode.
- After the adjustment, apply screwlock to the azimuth adjusting screw.

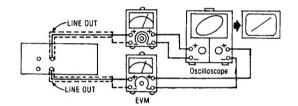


Fig. 1

E. Head R/P Head

Azimuth Screw (Forward) (Reverse)

Fig. 2

TAPE SPEED ADJUSTMENT

- 1.Playback the middle portion of the test tape (QZZCWAT).
- Adjust the VR in the motor so that the output is within the standard value.

Standard value: 3000 ± 15Hz

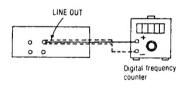


Fig. 3

PLAYBACK GAIN ADJUSTMENT

- Playback the gain adjusted portion (315 Hz, 0 dB) of the test tape (QZZCFM).
- Adjust VR5 (L-CH) and VR6 (R-CH) so that the output is within the standard value.

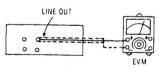
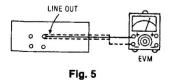


Fig. 4

Standard value: 0.4V±0.5dB

PLAYBACK FREQUENCY RESPONSE

- 1.Playback the frequency response portion (315 Hz, 12.5 kHz ~ 63 Hz, -20 dB) of the test tape (QZZCFM).
- 2. Assure that the frequency response is within the range shown in Fig. 6 for both L-CH and R-CH.



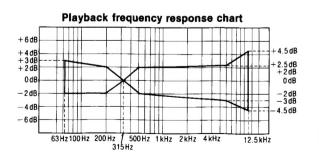
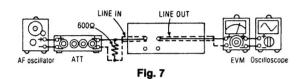


Fig. 6

OVERALL FREQUENCY RESPONSE

- 1.Insert the a Normal blank test tape (QZZCRA) and set the unit to the Record Pause mode.
- Apply a reference input signal (1 kHz, -24 dB) through an attenuator.
- 3.Attenuate the signal by 20 dB and adjust the frequency from 50 Hz \sim 12.5 kHz.
- 4. Record the frequency sweep.
- 5.Playback the recorded signal and assure that it is within the range shown in **Fig.8** in comparison to the reference frequency (1 kHz).
- 6.If it is not within the standard range, adjust VR301 (L-CH) and VR302 (R-CH) so that the frequency level is within the standard range.
- 7.Repeat steps 2 ~ 6 above using the CrO₂ tape(QZZCRX) and the Metal tape(QZZCRZ) increasing the frequency range to 14 kHz (50 Hz ~ 14 kHz).
- 8. Assure that the level is within the range shown in Fig.9.



Normal Overall frequency response chart (NR OUT)

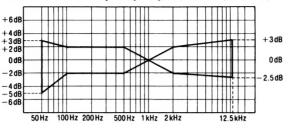


Fig. 8

CrO₂ · Metal Overall frequency response chart (NR OUT)

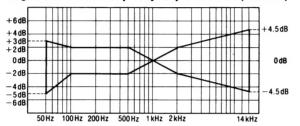
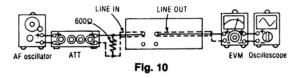


Fig. 9

OVERALL GAIN ADJUSTMENT

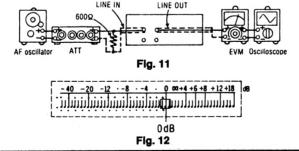
- Insert the Normal blank test tape (QZZCRA) and set the unit to the Record pause mode.
- 2. Apply a reference input signal (1 kHz, -24 dB). Attenuate the output so that its level becomes 0.4V.
- 3.Record this input signal.
- 4.Playback the signal recorded in step 3 above, and assure that the output is within the standard value.
- If it is not within the standard value, adjust VR7 (L-CH) and VR8 (R-CH).
- 6.Repeat the step 2 ~ 5 above until the output is within the standard value.



Standard value: $0.4V \pm 0.5dB$

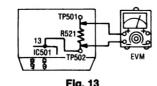
FLUORESCENT METER ADJUSTMENT

- Insert the Normal blank test tape(QZZCRA) and apply a reference input signal (1 kHz, -24 dB) in the Record Pause mode.
- 2.Using an attenuator, adjust until the voltage of the tape decks "LINE OUT" terminals is 0.4V.
- 3.Adjust VR701 so that the "0 dB" segment is slightly illuminated.



dbx TIMING ADJUSTMENT

- 1. Shift the noise reduction switch to the dbx position.
- 2.Playback the gain adjustment portion (315 Hz, 0 dB) of the test tape (QZZCFM).
- 3.Connect a DC voltmeter across TP501 and TP502.
- 4.Adjust VR501 so that the output is within the standard value.

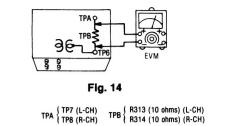


Standard value: DC18.4mV ± 0.5mV

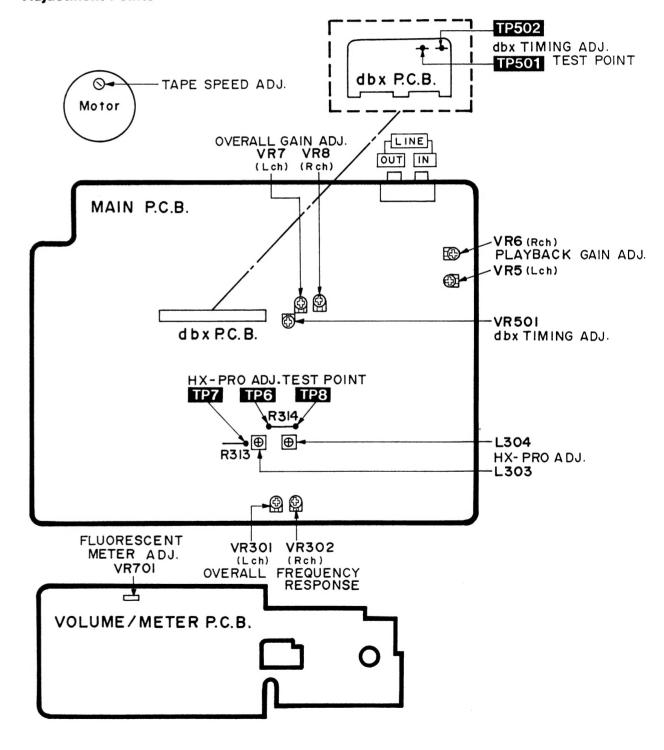
HX-PRO ADJUSTMENT

- 1. Insert the Metal blank tape (QZZCRZ) and set the unit to the Record Pause mode.
- Connect a DC voltmeter across TP7 (L-CH) and TP6, TP8 (R-CH) and TP6.
- 3. Adjust L303 (L-CH) and L304 (R-CH) so that the output is within the standard value.

Standard value: Less than DC 11 mA



• Adjustment Points



■ MICROCOMPUTER TERMINAL FUNCTION

(IC801: LC6520C-3658) *This microcomputer is used for mechanical operation.

Pin No.	Symbol	In/Out	Description of terminal			
1	PA2 (EST)		Not used in this unit.			
2	PA3 (POF)	Input	Power Supply Off detection.			
3	PB0		Reading of Key Scan input			
	(Scan in 0)		OUT 3 (PB0) 4 (PB1) 5 (PB2) 6 (PB3)			
4	PB1	1	7 (PC0) STOP PAUSE Reverse-side PLAY PLAY			
	(Scan in 1)		8 AUTO REC REC. REW. F.F.			
5	PB2	Input	9 (PC2) dbx Dolby C Dolby B NR OFF			
	(Scan in 2)		10 (PC3) Timer REC. Timer PLAY Reverse mode (♥) (♥) (♥)			
6	PB3	11	11 Forward-side PACK SW			
	(Scan in 3)		12 (PD1) — Quick in			
7	PC0 (Scan out 0)					
8	PC1 (Scan out 1)		1 			
9	PC2 (Scan out 2)	0	Kou Saan Output			
10	PC3 (Scan out 3)	Output	Key Scan Output.			
11	PD0 (Scan out 4)					
12	PD1 (Scan out 5)					
13	PD2 (R. REC. INH.)	Input	Reverse-side REC. Inhibit switch. • "L" in REC. Inhibit switch on mode. • "H" in REC. Inhibit switch off mode.			
14	PD3 (MSP)	Input	Music selector pulse. • Non Recorded space detection.			
15	PE0 (CD Edit Ind)		Not used in this unit.			

Pin No.	Symbol	In/Out	Description of terminal
16	PE1 (RMT)	Output	REC. mute control.
17	PE2 (MMT)	Output	Meter mute control.
18	PE3 (DMT)	Output	LINE OUT Direct mute control. • "L" in PLAY, REC-PLAY, REC-PAUSE mode. • "H" in other mode.
19	TEST		Test terminal. • Connected to GND.
20	V _{ss} (GND)		GND terminal.
21 22	OSC1 OSC2	Output Input	Clock OSC terminal
23	RES	Input	Reset terminal. • Reset at "L" level.
24	PF0 (RM-SP)	Output	Reel motor speed control. • "L" in PLAY, REC-PLAY and STOP mode. • "H" in other mode.
25	PF1 (RM-F)	Output	Reel motor control. • "H" in Foward PLAY and F.F. mode.
26	PF2 (RM-R)	Output	Reel motor control. • "H" in Reverse PLAY and REW mode.
27	PF3 (CPM)	Output	Capstan motor control. • "L" in PLAY and REC-PLAY mode. • "H" in other mode.
28	PG0 (C/R PL)	Output	Plunger control. • "L" in plunger ON mode (REC-PLAY, CUE, REV etc).
29	PG1 (Trig PL)	Output	Plunger control. • "L" in plunger ON mode.
30	PG2 (RPS)	Input	Reel table pulse. • Reel table rotation is detected by photo sensor.
31	PG3 (C. Up/Down)	Output	Counter UP/Down command. • "H" in counter is UP mode (Forward-PLAY, F.F. etc). • "L" in counter is down mode (Reverse-PLAY, REW etc).

Pin No.	Symbol	In/Out	Description of terminal
32	PIO (BIAS)	Output	Bias OSC control. • "L" in REC-PLAY mode.
33	PI1 (REC. LED)	Output	REC. LED display. • "L" in REC-PAUSE and REC-PLAY mode. • "H" in other mode.
34	PI2 (PLAY LED)	Output	PLAY LED display. • "L" in PLAY and REC-PLAY mode. • "H" in STOP, FF and REW mode.
35	PI3 (DIR LED)	Output	DIRECTION LED display. • "H" in Foward mode. • "L" in Reverse mode.
36	PJ0 (Remote)		Not used in this unit.
37	PJ1 (Dolby B)	Output	Noise reduction selector. • "L" in Dolby B mode. • "H" in other mode.
38	PJ2 (Dolby C)	Output	Noise reduction selector. • "L" in Dolby C mode. • "H" in other mode.
39	PJ3 (dbx)	Output	Noise reduction selector. • "L" in dbx mode. • "H" in other mode.
40	V _{DD}		Power supply terminal.
41	PA0	Output	Reverse mode LED display. • "L" in (continuous) mode.
42	PA1	Output	Reverse mode LED display. • "L" in (one-way) mode.

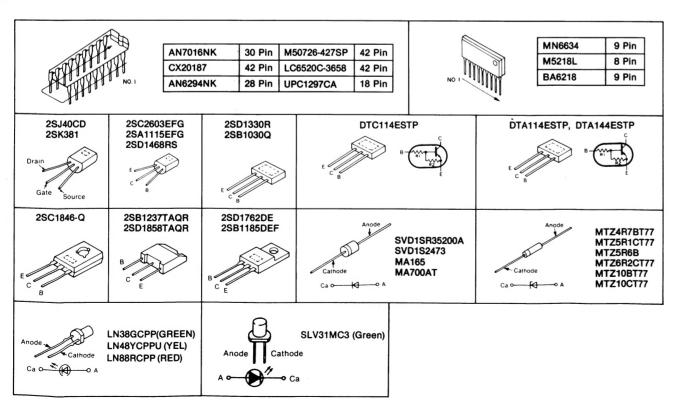
RS-B608R

(IC701: M50726-427SP) *This microcomputer is used for tape counter operation and FL meter.

Pin No.	Symbol	In/Out	Function/operation
1	RESET	Input	Reset terminal.
2	INT	Input	Reel table Pulse. • The rotation of reel table is detected by photo sensor, and the pulses are used to carry up or down for the counter.
3	AV _{SS}		Power supply for A-D converter, AV _{SS} =3.5 V.
4	V _{REF}	Input	Reference Power supply.
5	K ₀	Input	Lch A-D Converter (Analogue input).
6	K ₁	Input	Rch A-D Converter (Analogue input).
7	K ₂	Input	Reset input. • Activate "Low" (counter display is reset to [] [] []) Counter up/down select command.
8	K₃	Input	Meter mute control (activate "Low"). Meter renge (wide/normal) mode selector.
9	AV _{DD}	Input	Power supply for A-D converter. • Connected to V _{DD} .
10	S ₀)	Counter segment (active "LOW").
11	S ₁		
12	S ₂		Segment g (S ₀) Segment a (S ₂)
13	S ₃	In/Out	Segment f (S ₄) Segment b (S ₃)
14	S ₄		Segment e (S ₂) ————————————————————————————————————
15	S ₅		ວອຢູກາຍກະ ບ (ວາ)
16	S ₆	J	
.18	D ₀	Output	Scan signal for counter drive (SC1).
19	D ₁	Output	Scan signal for level meter drive (SC2).
20	CNV _{SS}		Connected to V _{SS} .
21	V _{SS}		Connected to GND.

		1	
Pin No.	Symbol	In/Out	Function/operation
17 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	S ₇ D ₂ D ₃ D ₄ D ₅ D ₆ D ₇ D ₈ D ₉ D ₁₀ F ₀ F ₁ F ₂ F ₃ G ₀ G ₁ G ₂	}In/Out	B18 B17 B16 B15 B14 B13 B12 B12 B11 B10 B19 B8 B9 B10 B11 B10 B10 B11 B10 B10 B11 B10 B11 B10 B11 B10 B12 B13 B14 B15 B16 B17 B18
39	G ₃	Output	Clock OSC terminal
40	X _{IN}	Input	
41	CNTR		Not used in this unit.
42	V _{DD}	Input	Power supply terminal

■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES



RESISTORS & CAPACITORS

Notes: * Important safety notice:

Components identified by \triangle mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

Numbering System of Resistor

Example:

ERD	25	F	J	102
Туре	Wattage (1/4W)	Shape	Tolerance	Value (1KΩ)
ERX	2	AN	J	471
Туре	Wattage (2W)	Shape	Tolerance	Value (470Ω)

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Туре	Voltage (50V)	Value (0.001µF)	Tolerance	Peculiarity
ECEA	50	M	330	
Туре	Voltage (50V)	Pecliarity	Value (33µF)	

- Capacity are in microfarads (µF) unless specified otherwise, P = Pico-farads (pF) F = Farads (F).
- Resistance are in ohms (Ω), unless specified otherwise, 1K = 1,000 Ω , 1M = 1,000k Ω

Resistor Type	Wa	ttage	Tolerance
ERD : Carbon	10 : 1/8W	12 : 1/2W	J: ±5%
ERG : Metal Oxide	14 : 1/4W	25: 1/4W	F: ±1%
ERQ : Fuse Type Metal	1A:1W	18: 1/8W	G: ±2%
ERX : Metal Film	S2: 1/4W	S1: 1/2W	J: ±5%
ERD L : Carbon (chip)	2F : 1/4W	50: 1/2W	K: ±10%
ERO K : Metal Film (chip)	2A : 2W	3A: 3W	M: ±20%
ERC : Solid	6G: 1/10W	8G: 1/8W	
ERF : Incombustible			
Box-Shaped			
ERM : Wire-Wound	1		
RRJ : Cip Resistor			
ERJ : Cip Resistor	ŀ		1

Capacitor Type	Voltage		Tolerance
ECE : Electrolytic	0J : 6.3V	1A: 10V	K: ±10%
ECCD : Ceramic	1C : 16V	1E: 25V	M: ±20%
ECKD : Ceramic Capacitor	1H: 50V	1V: 35V	Z: +80 %
ECQM : Poyester	50 : 50V	05 : 50V	-20
ECQP : Polypropylene	2H: 500V	2A: 100V	J: ±5%
ECG : Ceramic	1 : 100V	1J: 63V	G: ±2%
ECEA N : Non Polar Electrolytic	KC: 400V AC		F: ±1%
QCU : Ceramic (Chip Type)	KC: 125V AC		C: ±0.25pF
ECUX : Ceramic (Chip Type)	(UL)		D: ±0.5pF
ECF : Semiconductor			
EECW : Liquid electrolyte double layer capacitor	-9		

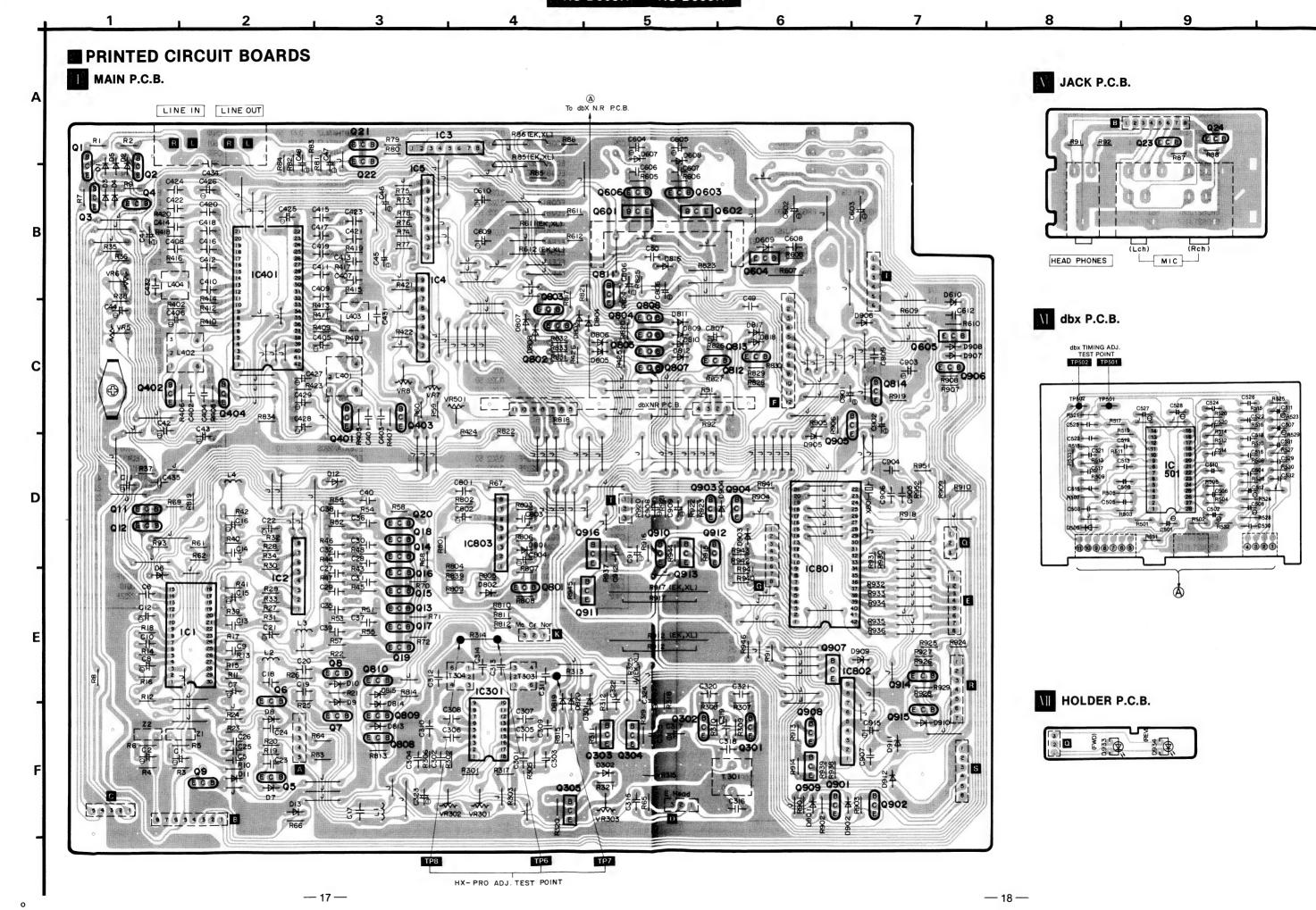
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RESISTORS(VA	LUE,WATTAGE)		R41	ERDS2TJ222	2,2K 1/4	R85	ERDS2TJ101	100 1/4
R1	ERDS2TJ333	33K 1/4	R42	ERDS2TJ222	2.2K 1/4	(E, EH, EG, XA)		
R2	ERDS2TJ333	33K 1/4	R43	ERDS2TJ390	39 1/4	(XB)		
R3	ERDS2TJ473	47K 1/4	R44	ERDS2TJ390	39 1/4	R85	ERX1ANJ101	100 1
R4	ERDS2TJ473	47K 1/4	R45	ERDS2TJ101	100 1/4	(EK, XL)		
R5	ERDS2TJ102	1K 1/4	R46	ERDS2TJ101	100 1/4	R86	ERDS2TJ101	100 1/4
R6	ERDS2TJ102	1K 1/4	R47	ERDS2TJ221	220 1/4	(E, EH, EG, XA)		
R7	ERDS2TJ472	4.7K 1/4	R48	ERDS2TJ221	220 1/4	(XB)		
R8	ERDS2TJ472	4.7K 1/4	R51	ERDS2TJ222	2.2K 1/4	R86	ERX1ANJ101	100 1
39	ERDS2TJ104	100K 1/4	R52	ERDS2TJ222	2.2K 1/4	(EK, XL)		
R10	ERDS2TJ473	47K 1/4	R53	ERDS2TJ562	5.6K 1/4	R87	ERDS2TJ472	4.7K 1/4
R11	ERDS2TJ121	120 1/4	R54	ERDS2TJ562	5.6K 1/4	R88	ERDS2TJ472	4.7K 1/4
R12	ERDS2TJ121	120 1/4	R55	ERDS2TJ122	1.2K 1/4	R91	ERDS2TJ562	5.6K 1/4
R13	ERDS2TJ133	13K 1/4	R56	ERDS2TJ122	1.2K 1/4	R92	ERDS2TJ562	5.6K 1/4
R14	ERDS2TJ133	13K 1/4	R57	ERDS2TJ102	1K 1/4	R93	ERDS2TJ392	3.9K 1/4
R15	ERDS2TJ564	560K 1/4	R58	ERDS2TJ102	1K 1/4	R301	ERDS2TJ153	15K 1/4
R16	ERDS2TJ564	560K 1/4	R59	ERDS2TJ332	3.3K 1/4	R302	ERDS2TJ153	15K 1/4
R17	ERDS2TJ912	9.1K 1/4	R60	ERDS2TJ332	3.3K 1/4	R303	ERDS2TJ123	12K 1/4
118	ERDS2TJ912	9.1K 1/4	R61	ERDS2TJ223	22K 1/4	R305	ERDS2TJ154	150K 1/4
R19	ERDS2TJ155	1,5M 1/4	R62	ERDS2TJ223	22K 1/4	R306	ERDS2TJ154	150K 1/4
R20	ERDS2TJ155	1.5M 1/4	R63	ERD25FJ100	10 1/4	R307	ERDS2TJ223	22K 1/4
321	ERDS2TJ223	22K 1/4	R64	ERD25FJ100	10 1/4	R308	ERDS2TJ223	22K 1/4
322	ERDS2TJ223	22K 1/4	R65	ERD25FJ1R0	1 1/4	R309	ERDS2TJ180	18 1/4
323	ERDS2TJ101	100 1/4	R66	ERDS2TJ222	2.2K 1/4	R310	ERDS2TJ180	18 1/4
324	ERDS2TJ101	100 1/4	R67	ERDS2TJ472	4.7K 1/4	R311	ERDS2TJ473	47K 1/4
325	ERDS2TJ103	10K 1/4	R68	ERDS2TJ472	4.7K 1/4	R312	ERDS2TJ102	1K 1/4
26	ERDS2TJ103	10K 1/4	R69	ERDS2TJ472	4.7K 1/4	R313	ERD2FCG100	10 1/4
R27	ERDS2TJ100	10 1/4	R70	ERDS2TJ472	4.7K 1/4	R314	ERD2FCG100	10 1/4
328	ERDS2TJ100	10 1/4	R71	ERDS2TJ472	4.7K 1/4	R315	ERD2FCG100	10 1/4
129	ERDS2TJ330	33 1/4	R72	ERDS2TJ103	10K 1/4	(XB, E, EH, EG)		
R30	ERDS2TJ330	33 1/4	R73	ERDS2TJ102	1K 1/4	(XA)		
R31	ERDS2TJ102	1K 1/4	R74	ERDS2TJ102	1K 1/4	R317	ERDS2TJ102	1K 1/4
332	ERDS2TJ102	1K 1/4	R75	ERDS2TJ473	47K 1/4	R318	ERDS2TJ103	10K 1/4
333	ERDS2TJ332	3,3K 1/4	R76	ERDS2TJ473	47K 1/4	R319	ERDS2TJ222	2.2K 1/4
134	ERDS2TJ332	3.3K 1/4	R77	ERDS2TJ822	8.2K 1/4	R320	ERDS2TJ331	330 1/4
35	ERDS2TJ473	47K 1/4	R78	ERDS2TJ822	8.2K 1/4	R321	ERDS2TJ221	220 1/4
36	ERDS2TJ473	47K 1/4	R79	ERDS2TJ152	1.5K 1/4	R325	ERD2FCJ4R7	4.7 1/4
337	ERDS2TJ472	4.7K 1/4	R80	ERDS2TJ152	1.5K 1/4	(EK.XL)		
338	ERDS2TJ472	4.7K 1/4	R81	ERDS2TJ182	1.8K 1/4	R327	ERDS2TJ473	47K 1/4
139	ERDS2TJ473	47K 1/4	R82	ERDS2TJ182	1.8K 1/4	R328	ERDS2TJ103	10K 1/4
140	ERDS2TJ473	47K 1/4	R83	ERDS2TJ224	220K 1/4	R401	ERDS2TJ242	2.4K 1/4
			R84	ERDS2TJ224	220K 1/4	R402	ERDS2TJ242	2,4K 1/4

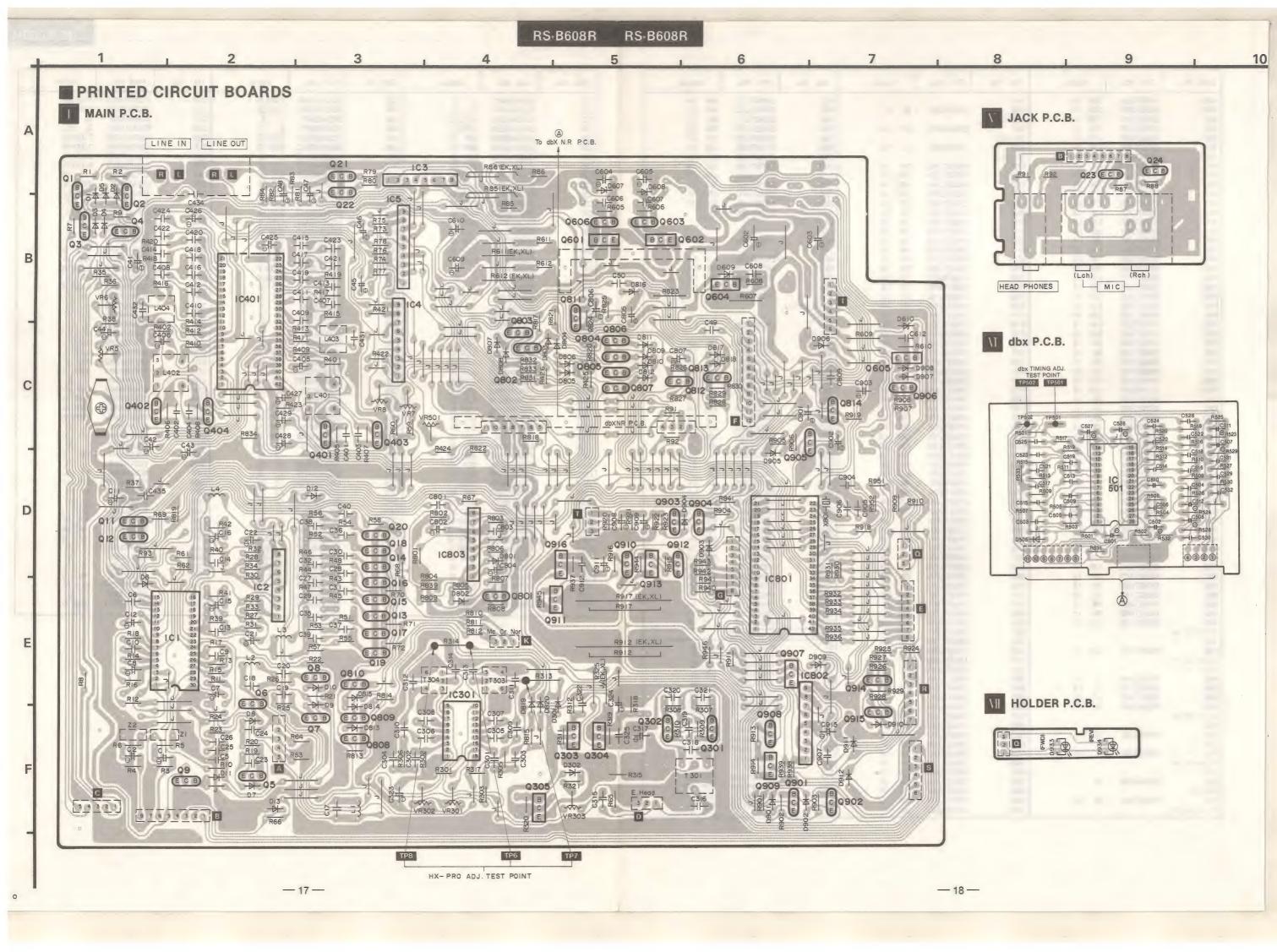
Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
R405	ERDS2TJ274	270K 1/4	(XB)			R841	ERDS2TJ103	10K 1/4
R406	ERDS2TJ274	270K 1/4	R612	ERG1ANJ560	56 1	R901	ERDS2TJ103	10K 1/4
R407	ERDS2TJ274	270K 1/4	(EK, XL)	500 100 W/D15	0.45 4/0	R902	ERDS2TJ103	10K 1/4
R408 R409	ERDS2TJ274	270K 1/4 4,7K 1/4	R613 (EK, XL)	ERQ16NKR15	0.15 1/6	R903 R904	ERDS2TJ103 ERDS2TJ103	10K 1/4 10K 1/4
R410	ERDS2TJ472 ERDS2TJ472	4.7K 1/4 4.7K 1/4	R614	ERQ.16NKR15	0.15 1/6	R905	ERDS2TJ332	3,3K 1/4
R411	ERDS2TJ471	470 1/4	(EK, XL)	LINETOWATIO	0.10 1/0	R906	ERDS2TJ103	10K 1/4
R412	ERDS2TJ471	470 1/4	R701	ERDS2TJ105	1M 1/4	R907	ERDS2TJ103	10K 1/4
R413	ERDS2TJ392	3,9K 1/4	R702	ERDS2TJ104	100K 1/4	R908	ERDS2TJ104	100K 1/4
R414	ERDS2TJ392	3.9K 1/4	R703	ERDS2TJ104	100K 1/4	R909	ERDS2TJ681	680 1/4
R415	ERDS2TJ272	2.7K 1/4	R704	ERDS2TJ104	100K 1/4 100 1/4	R910 R911	ERDS2TJ471 ERDS2TJ391	470 1/4 390 1/4
R416 R417	ERDS2TJ272 ERDS2TJ682	2.7K 1/4 6.8K 1/4	R705 R706	ERDS2TJ101 ERDS2TJ101	100 1/4	R912	ERG1ANJ390	39 1
R418	ERDS2TJ682	6.8K 1/4	R707	ERDS2TJ103	10K 1/4	(E, EH, EG, XA)	2.12.11.10.000	
R419	ERDS2TJ681	680 1/4	R708	ERDS2TJ103	10K 1/4	(XB)		
R420	ERDS2TJ681	680 1/4	R709	ERDS2TJ103	10K 1/4	R912	ERG3ANJ390	39 3
R421	ERDS2TJ152	1.5K 1/4	R710	ERDS2TJ103	10K 1/4	(EK, XL)	EDDOOT HED	1 FV 1/4
R422	ERDS2TJ152	1.5K 1/4	R711	ERDS2TJ473	47K 1/4 22K 1/4	R913 R914	ERDS2TJ152 ERDS2TJ273	1,5K 1/4 27K 1/4
R423 R424	ERDS2TJ104 ERDS2TJ472	100K 1/4 4.7K 1/4	R712 R713	ERDS2TJ223 ERDS2TJ473	47K 1/4	R915	ERDS2TJ681	680 1/4
R425	ERDS2TJ472	4.7K 1/4	R714	ERDS2TJ102	1K 1/4	R916	ERDS2TJ102	1K 1/4
R426	ERDS2TJ472	4.7K 1/4	R715	ERDS2TJ102	1K 1/4	R917	ERG2ANJ390	39 2
R501	ERDS2TJ432	4.3K 1/4	R716	ERDS2TJ473	47K 1/4	(E, EH, EG, XA)		
R502	ERDS2TJ432	4.3K 1/4	R717	ERDS2TJ102	1K 1/4	(XB)		
R503	ERDS2TJ622	6.2K 1/4	R718	ERDS2TJ102	1K 1/4	R917	ERG3ANJ390	39 3
R504	ERDS2TJ622	6.2K 1/4	R719	ERDS2TJ473	47K 1/4 1K 1/4	(EK, XL) R918	ERDS2TJ683	68K 1/4
R505 R506	ERDS2TJ243 ERDS2TJ243	24K 1/4 24K 1/4	R720 R721	ERDS2TJ102 ERDS2TJ102	1K 1/4 1K 1/4	R919	ERDS2TJ683	68K 1/4
R507	ERDS2TJ913	91K 1/4	R722	ERDS2TJ473	47K 1/4	R920	ERDS2TJ561	560 1/4
R508	ERDS2TJ913	91K 1/4	R723	ERDS2TJ102	1K 1/4	R921	ERDS2TJ103	10K 1/4
R509	ERDS2TJ472	4.7K 1/4	R724	ERDS2TJ102	1K 1/4	R922	ERDS2TJ104	100K 1/4
R510	ERDS2TJ472	4.7K 1/4	R725	ERDS2TJ473	47K 1/4	R923	ERDS2TJ102	1K 1/4
R511	ERDS2TJ333	33K 1/4	R726	ERDS2TJ103	10K 1/4	R924	ERDS2TJ471	470 1/4
R512	ERDS2TJ333 ERDS2TJ333	33K 1/4 33K 1/4	R727 R728	ERDS2TJ103 ERDS2TJ103	10K 1/4 10K 1/4	R925 R926	ERDS2TJ222 ERDS2TJ473	2,2K 1/4 47K 1/4
R513 R514	ERDS2TJ333	33K 1/4	R729	ERDS2TJ124	120K 1/4	R927	ERDS2TJ472	4.7K 1/4
R515	ERDS2TJ682	6.8K 1/4	R730	ERDS2TJ124	120K 1/4	R928	ERDS2TJ103	10K 1/4
R516	ERDS2TJ682	6.8K 1/4	R731	ERDS2TJ104	100K 1/4	R929	ERDS2TJ103	10K 1/4
R517	ERDS2TJ182	1.8K 1/4	R732	ERDS2TJ104	100K 1/4	R930	ERDS2TJ102	1K 1/4
R518	ERDS2TJ182	1.8K 1/4	R733	ERDS2TJ221	220 1/4	R931	ERDS2TJ561	560 1/4 560 1/4
R519	ERDS2TJ183	18K 1/4 18K 1/4	R734 R735	ERDS2TJ471 ERD2FCG181	470 1/4 180 1/4	R932 R933	ERDS2TJ561 ERDS2TJ561	560 1/4 560 1/4
R520 R521	ERDS2TJ183 ERDS2TJ102	1K 1/4	R736	ERD2FCG181	180 1/4	R934	ERDS2TJ102	1K 1/4
R523	ERDS2TJ123	12K 1/4	R801	ERDS2TJ472	4,7K 1/4	R935	ERDS2TJ561	560 1/4
R524	ERDS2TJ123	12K 1/4	R802	ERDS2TJ101	100 1/4	R936	ERDS2TJ561	560 1/4
R525	ERDS2TJ123	12K 1/4	R803	ERDS2TJ563	56K 1/4	R937	ERDS2TJ471	470 1/4
R526	ERDS2TJ123	12K 1/4	R804	ERDS2TJ393	39K 1/4	R938	ERDS2TJ103	10K 1/4 10K 1/4
R527	ERDS2TJ112	1.1K 1/4 1.1K 1/4	R805 R806	ERDS2TJ103 ERDS2TJ392	10K 1/4 3,9K 1/4	R939 R940	ERDS2TJ103 ERDS2TJ562	10K 1/4 5,6K 1/4
R528 R529	ERDS2TJ112 ERDS2TJ112	1.1K 1/4 1.1K 1/4	R807	ERDS2TJ332	3.3K 1/4	R941	ERD25FJ562	5.6K 1/4
R530	ERDS2TJ112	1.1K 1/4	R808	ERDS2TJ273	27K 1/4	R942	ERDS2TJ562	5.6K 1/4
R531	ERDS2TJ223	22K 1/4	R809	ERDS2TJ273	27K 1/4	R943	ERDS2TJ562	5.6K 1/4
R532	ERDS2TJ223	22K 1/4	R810	ERDS2TJ102	1K 1/4	R944	ERDS2TJ273	27K 1/4
R533	ERDS2TJ103	10K 1/4	R811	ERDS2TJ561	560 1/4 470 1/4	R945 R946	ERDS2TJ273 ERD25FJ103	27K 1/4 10K 1/4
R601 R602	ERDS2TJ683 ERDS2TJ683	68K 1/4 68K 1/4	R812 R813	ERDS2TJ471 ERDS2TJ223	470 1/4 22K 1/4	R951	ERDS2TJ472	4.7K 1/4
R605	ERDS2TJ152	1,5K 1/4	R814	ERDS2TJ103	10K 1/4	R952	ERDS2TJ472	4.7K 1/4
(E, EH, EG, XA)			R815	ERDS2TJ271	270 1/4		ALUE, VOLTAGE)	
(XB)			R817	ERDS2TJ103	10K 1/4	C1	ECEA1EU4R7	4.7 25
R606	ERDS2TJ152	1.5K 1/4	R818	ERDS2TJ103	10K 1/4	C2	ECEA1EU4R7	4.7 25
(E, EH, EG, XA)			R819	ERDS2TJ103	10K 1/4	C5	ECKD1H103PF	0.01 50
(XB)	ERD2FCJ4R7	4.7 1/4	R820 R821	ERDS2TJ103 ERDS2TJ103	10K 1/4 10K 1/4	C6	ECKD1H103PF	0.01 50
R607 R608	ERDS2TJ102	4.7 1/4 1K 1/4	R822	ERDS2TJ472	4.7K 1/4	C7	ECEA0JU470	47 6.3
R609	ERD2FCJ4R7	4.7 1/4	R823	ERD2FCG470	47 1/4	C8	ECEA0JU470	47 6.3
R610	ERDS1FJ391	390 1/2	R824	ERDS2TJ103	10K 1/4	C9 C10	ECQB1H562JZ ECQB1H562JZ	0,0056 50 0,0056 50
(E, EH, EG, XA)			R825	ERDS2TJ103	10K 1/4	C10	ECEA1CU100	10 16
(XB)			R826	ERDS2TJ223	22K 1/4	C12	ECEA1CU100	10 16
R610	ERDS2TJ391	390 1/4	R827	ERDS2TJ473	47K 1/4	C13	ECKD1H102KB	0.001 50
(EK, XL)	EDDOOT IEGO	56 1/4	R828 R829	ERDS2TJ103 ERDS2TJ333	10K 1/4 33K 1/4	C14	ECKD1H102KB	0.001 50
R611 (E, EH, EG, XA)	ERDS2TJ560	30 1/4	R830	ERDS2TJ103	33K 1/4 10K 1/4	C15	ECEA1HU010	1 50
(XB)			R831	ERDS2TJ682	6.8K 1/4	C16	ECEA1HU010	1 50
R611	ERG1ANJ560	56 1	R832	ERDS2TJ103	10K 1/4	C17 C18	ECKD2H121KB ECKD2H121KB	120P 500 120P 500
(EK, XL)			R833	ERDS2TJ103	10K 1/4	C19	ECKD2H121KB ECKD1H821KB	820P 50
R612	ERDS2TJ560	56 1/4	R834	ERDS2TJ473	47K 1/4	C20	ECKD1H821KB	820P 50
(E, EH, EG, XA)			R839	ERDS2TJ393	39K 1/4			

Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
C21	ECEA1EU4R7	4.7 25	C403	ECKD1H152KB	0.0015 50	C525	ECQB1H183JZ	0.018 50
222	ECEA1EU4R7	4.7 25	C404	ECKD1H152KB	0.0015 50	C526	ECQB1H183JZ	0.018 50
23	ECKD1H122KB	0.0012 50	C405	ECEA1EU4R7	4.7 25	C527	ECEA1AK220	22 10
24	ECKD1H122KB	0,0012 50	C406	ECEA1EU4R7	4.7 25	C528	ECEA1AK220	22 10
25	ECKD1H561KB	560P 50	C407	ECQB1H472JZ	0.0047 50	C529	ECKD1H182KB	0.0018 50
26	ECKD1H561KB	560P 50	C408	ECQB1H472JZ	0.0047 50	C530	ECKD1H182KB	0.0018 50
27	ECQM1H273JZ	0.027 50	C409	ECQM1H474JZ	0.47 50	C531	ECKD1H182KB	0.0018 50
28	ECQM1H273JZ	0.027 50	C410	ECQM1H474JZ	0.47 50	C532	ECKD1H182KB	0.0018 50
29	ECQB1H472JZ	0.0047 50	C411	ECQM1H154JZ	0.15 50	C601 △	ECKDKC103PF2	0.01 125
30	ECQB1H472JZ	0.0047 50	C412	ECQM1H154JZ	0.15 50	C602	ECEA1CU472	4700 16
31	ECQB1H822JZ	0.0082 50	C413	ECQB1H153JZ	0.015 50	C603	ECEA25V2200	2200 25
32	ECQB1H822JZ	0.0082 50	C414	ECQB1H153JZ	0,015 50	C604	ECEA1CU331	330 16
35	ECQB1H223JZ	0.022 50	C415	ECQM1H224JZ	0.22 50	C605	ECEA1CU331	330 16
		0.022 50	C416	ECQM1H224JZ	0.22 50	C606	ECKD1H103PF	0.01 50
236	ECQB1H223JZ				0.068 50	C607	ECKD1H103PF	0.01 50
237	ECQB1H223JZ	0.022 50	C417	ECQM1H683JZ	0.068 50	C608	ECKD1H103PF	0.01 50
38	ECQB1H223JZ	0.022 50	C418	ECQM1H683JZ				1000 10
39	ECQB1H123JZ	0.012 50	C419	ECQM1H473JZ	0.047 50	C609	ECEA10V1000	
C40	ECQB1H123JZ	0.012 50	C420	ECQM1H473JZ	0.047 50	C610	ECEA10V1000	1000 10
C41	ECEA1HU010	1 50	C421	ECQB1H682JZ	0,0068 50	C611	ECKD2H682PEL	0,0068 500
242	ECEA1HU010	1 50	C422	ECQB1H682JZ	0,0068 50	C612	ECKD1H103PF	0.01 50
243	ECEA1HU010	1 50	C423	ECQB1H103JZ	0.01 50	C614	ECKD2H682PE	0,0068 500
C44	ECEA1HU010	1 50	C424	ECQB1H103JZ	0.01 50	C701	ECQB1H103JZ	0.01 50
245	ECEA1CU100	10 16	C425	ECEA1CU100	10 16	C702	ECEA1CKS100	10 16
246	ECEA1CU100	10 16	C426	ECEA1CU100	10 16	C705	ECKD1H103PF	0.01 50
247	ECEA1CU100	10 16	C427	ECEA1EU4R7	4.7 25	C707	ECEA1EK220	22 25
C48	ECEA1CU100	10 16	C428	ECEA1EU4R7	4.7 25	C708	ECEA1EK220	22 25
C49	ECQB1H223JZ	0.022 50	C429	ECEA1EU4R7	4.7 25	C709	ECBT1E223ZF	0.022 25
C50	ECQB1H223JZ	0.022 50	C431	ECKD1H681K	680P 50	C710	ECBT1E223ZF	0,022 25
C301	ECQB1H123JZ	0.012 50	C432	ECKD1H681K	680P 50	C711	ECBT1H102KB	0.001 50
C302	ECQB1H123JZ	0.012 50	C434	ECKR1H103ZF5	0.01 50	C712	ECBT1H102KB	0,001 50
C303	ECKD1H122KB	0.0012 50	C435	ECKR1H103ZF5	0.01 50	C713	ECEA1HK010	1 50
C304	ECKD1H122KB	0.0012 50	C501	ECEA1AK220	22 10	C714	ECKD1H103PF	0.01 50
C305	ECQB1H223JZ	0.022 50	C502	ECEA1AK220	22 10	C715	ECBT1E223ZF	0.022 25
C306	ECQB1H223JZ	0.022 50	C503	ECQB1H153JZ	0.015 50	C716	ECBT1E223ZF	0.022 25
	ECQV1H104JZ	0.022 50	C504	ECQB1H153JZ	0.015 50	C801	ECQB1H822JZ	0.0082 50
C 3 07			C505	ECKD1H331KB	330P 50	C802	ECEA1CU100	10 16
C308	ECQV1H104JZ				330P 50	C803	ECCD1H470K	47P 50
C309	ECCD1H121K		C506	ECKD1H331KB				1 50
C310	ECCD1H121K	120P 50	C507	ECEA1HK1R5	1.5 50	C804	ECEA1HU010	470 16
C311	ECKD1H821KB	820P 50	C508	ECEA1HK1R5	1.5 50	C805	ECEA1CU471	
C312	ECKD1H821KB	820P 50	C509	ECEA1AN220S	22 10	C806	ECEA1CU100	
2313	ECKD1H223PF	0.022 50	C510	ECEA1AN220S	22 10	C807	ECEA1EU4R7	
C314	ECKD1H223PF	0.022 50	C511	ECEA1EK3R3B	3.3 25	C809	ECKR1H103ZF5	0.01 50
C315	ECCD1H100KC	10P 50	C512	ECEA1EK3R3B	3,3 25	C901	ECEA1EU4R7	4.7 25
C316	ECQP1183JZ	0.018 100	C513	ECQV1H104JZ	0.1 50	C902	ECEA1HU2R2	2.2 50
2317	ECEA1EU221	220 25	C514	ECQV1H104JZ	0.1 50	C903	ECEA0JU222	2200 6.3
2318	ECQB1H562JZ	0,0056 50	C515	ECQV1H104JZ	0.1 50	C904	ECKD1H103PF	0.01 50
C319	ECQB1H472JZ	0.0047 50	C516	ECQV1H104JZ	0.1 50	C905	ECCD1H330J	33P 50
C320	ECQB1H472JZ	0.0047 50	C517	ECQB1H332JZ	0,0033 50	C906	ECCD1H330J	33P 50
2321	ECQB1H472JZ	0.0047 50	C518	ECQB1H332JZ	0.0033 50	C907	ECEA1CN100S	10 16
322	ECOM1H473JZ	0.047 50	C519	ECQB1H332JZ	0.0033 50	C908	ECEA1HU010	1 50
C323	ECEA1CU100	10 16	C520	ECQB1H332JZ	0,0033 50	C909	ECEA1CU100	10 16
C324	ECEA1AU101	100 10	C521	ECKD1H331KB	330P 50	C911	ECEA1CU101	100 16
C325	ECKD1H103PF	0.01 50	C522	ECKD1H331KB	330P 50	C912	ECKD1H103PF	0.01 50
C401	ECKD1H122KB	0.0012 50	C523	ECQV1H184JZ	0.18 50	C915	ECEA1HU010	1 50
C402	ECKD1H122KB	0.0012 50	C524	ECQV1H184JZ	0.18 50	C916	ECBT1E223ZF	0.022 25
JTUE	LUNDINIZZNO	0.0012 00	JULT	20271110402	3,10 30	1 0010	LVUITEEULI	J. VIII

--- 15 ---

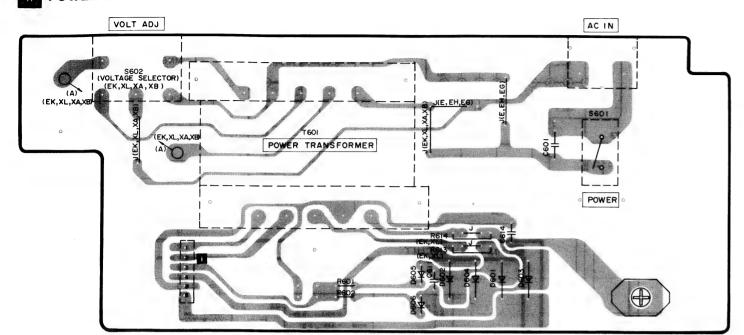
--- 16 ----

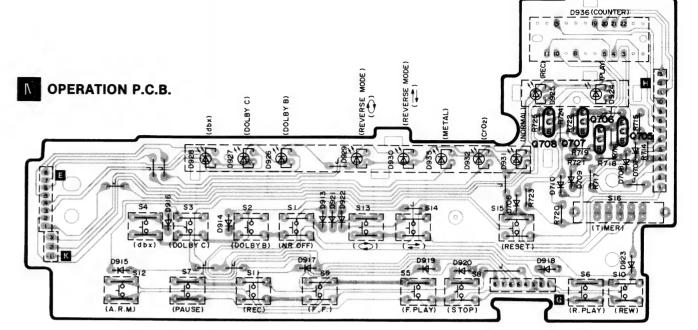




11 12 13 14 15 16 17 18 19 20

POWER SUPPLY P.C.B.





WIRING

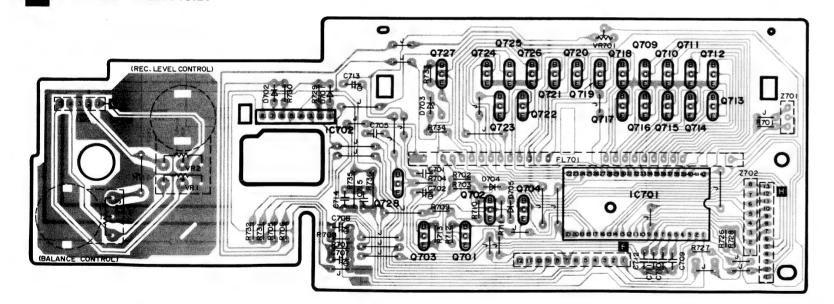
POWER SUPPLY

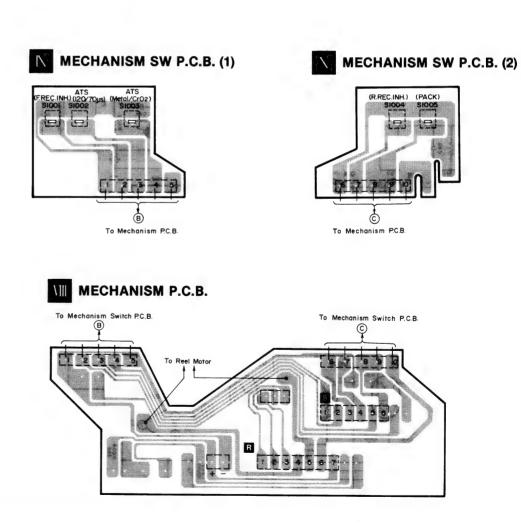
WHOLDER P.C.E

MECHANISM P. C.

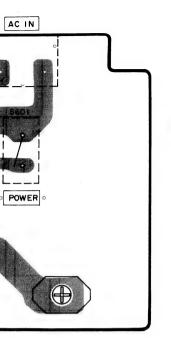
12345678

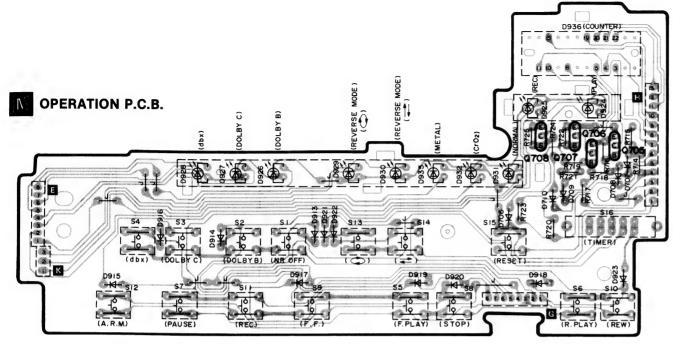
VOLUME/METER P.C.B.

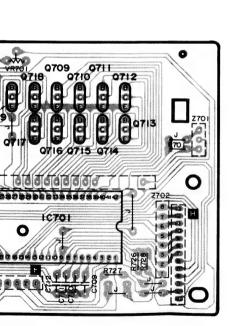


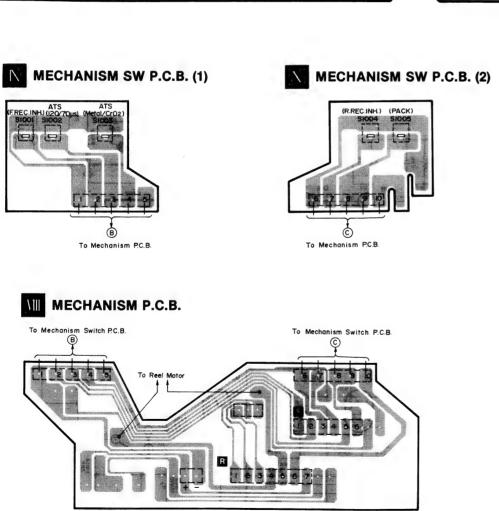


<u>15 , 16 , 17 , 18 , 19 , 20 </u>

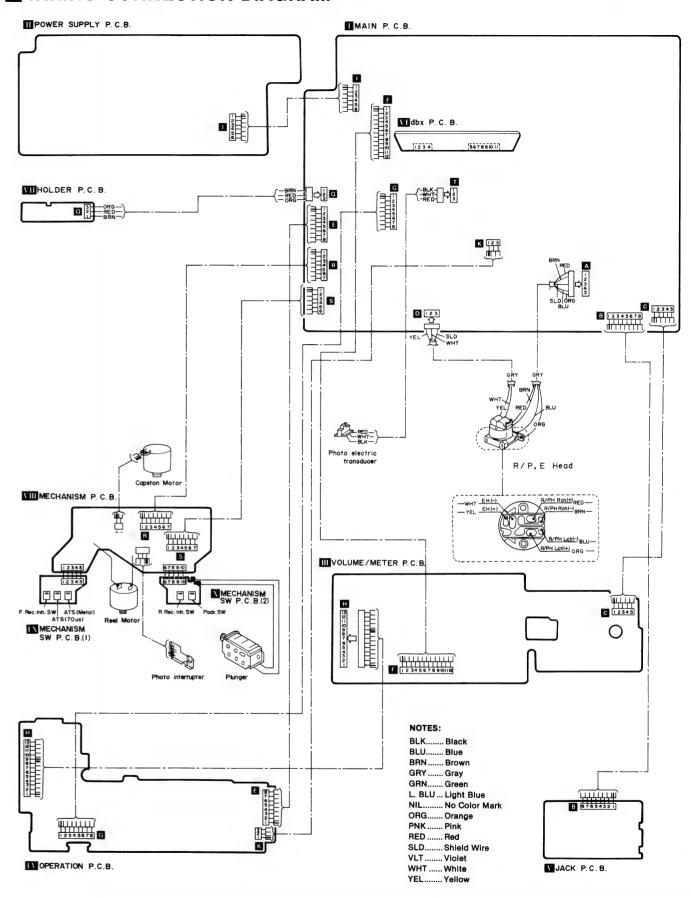






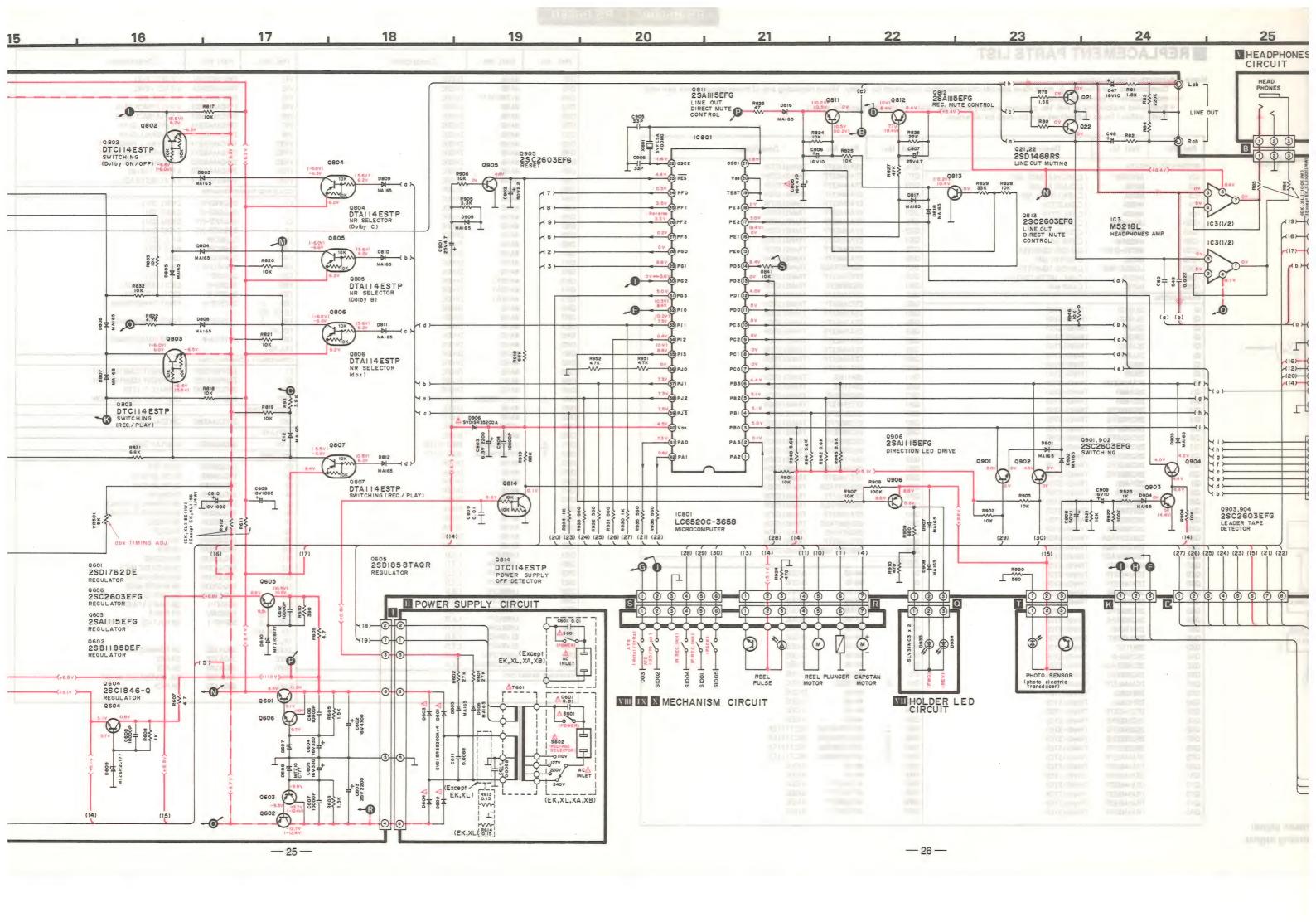


■ WIRING CONNECTION DIAGRAM



RS-B608R

RS-B608R



Q913

Q801 2SC2603EFG

0

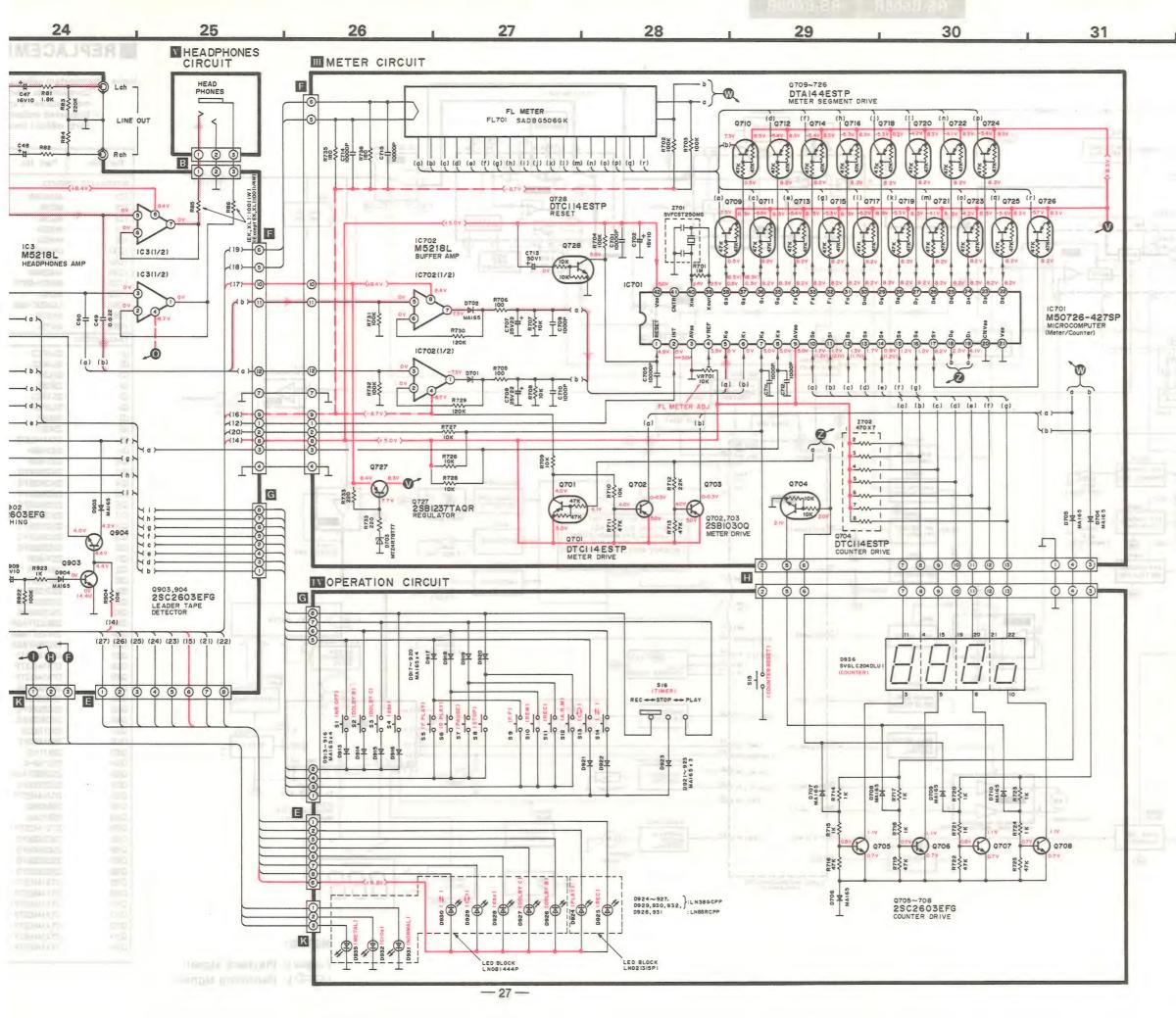
EK,XL)

(EK, XL): 39 (3W) (Except EK, XL): 39 (IW)

9909

(EK,XL): 39 (3W) (Except EK,XL):39 (2W)

DTC114 ESTP ROTARY DETECTION



SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

- S1 NR off switch in "off" position.
- S2 Dolby B NR switch in "off" position.
- S3 Dolby C NR switch in "off" position.
- dbx NR switch in "off" position. · S4
- Forward-side Playback switch in "off" position. · S5
- . 56 Reverse-side Playback switch in "off" position.
- S7 Pause switch in "off" position. · S8 Stop switch in "off" position.
- S9 F.F. switch in "off" position.
- Rew. switch in "off" position. · S10
- Record switch in "off" position. o S11
- S12 Auto rec. mute switch in "off" position.
- Reverse mode selector () in "off" position.
- Reverse mode selector (⇒) in "off" position. • S14 • S15
- Tape counter reset button in "off" position. e S16
- Timer stand-by switch in "off" position.
- · S601 : Power switch in "on" position.
- Voltage selector in "240 V" position. (EK, XL, XA, XB) areas
- \$1001: Forward-side Rec. inhibit switch in "off" position.
- \$1002: ATS (120/70μs) in "off (70μs)" position.
- \$1003: ATS (Metal/CrO2) in "off (Metal)" position.
- S1004: Reverse-side Rec. inhibit switch in "off" position.
- \$1005: Pack switch in "off" position.
- Resistance are in ohms (Ω), 1/4 watt unless specified otherwise. $1 K = 1,000 (\Omega), 1 M = 1,000 k (\Omega)$
- Capacity are in micro-farads (µF) unless specified otherwise.
- · All voltage values shown in circuitry are under no signal condition and
- playback mode with volume control at minimum position otherwise
- ()Voltage values at record mode.
- For measurement us EVM.

· Important safety notice

Components identified by \(\triangle \) mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

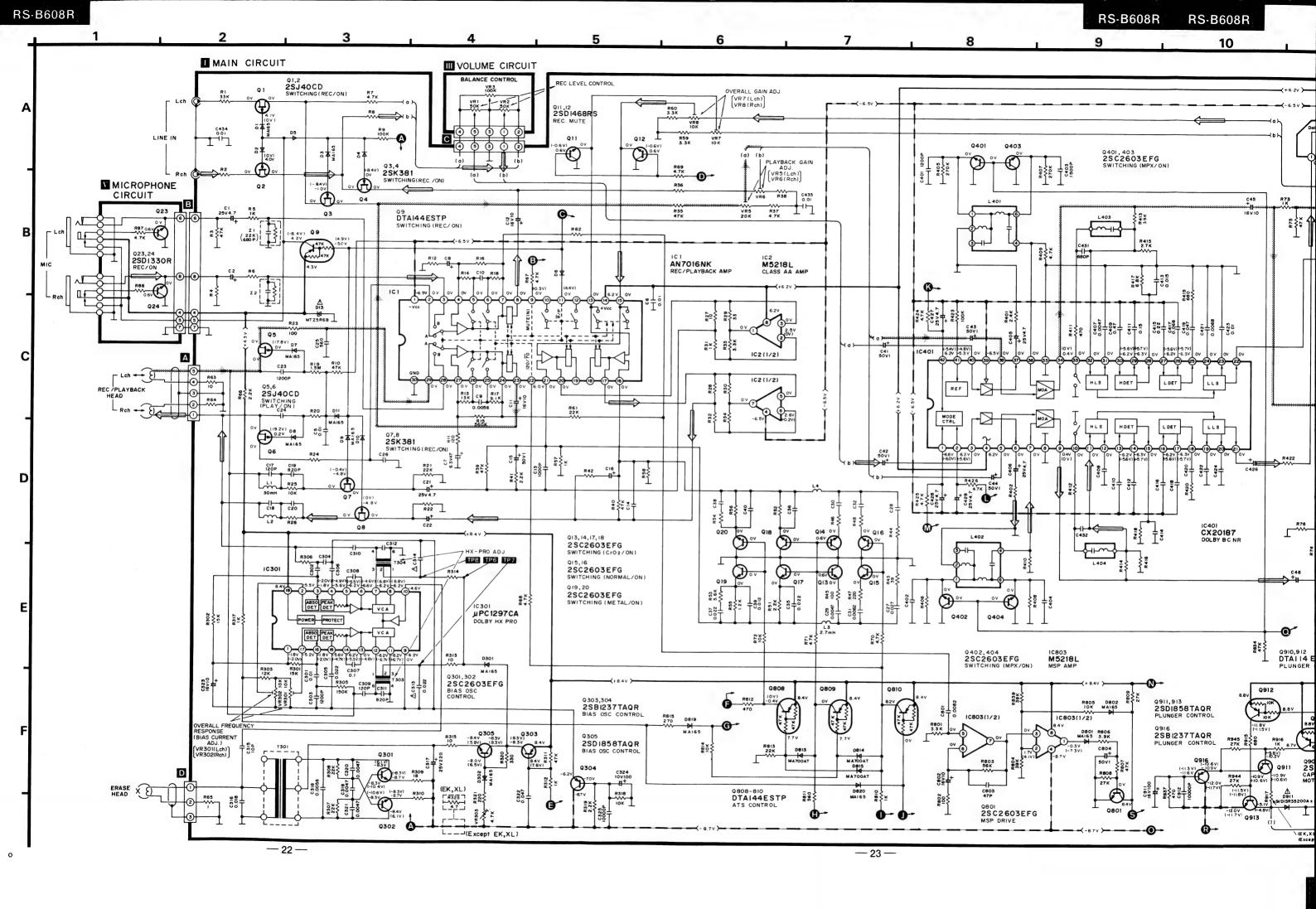
- +B> indicates +B (bias).
- (B B B C B) indicates B (bias).
- () indicates the flow of the playback signal.
- () indicates the flow of the record signal.

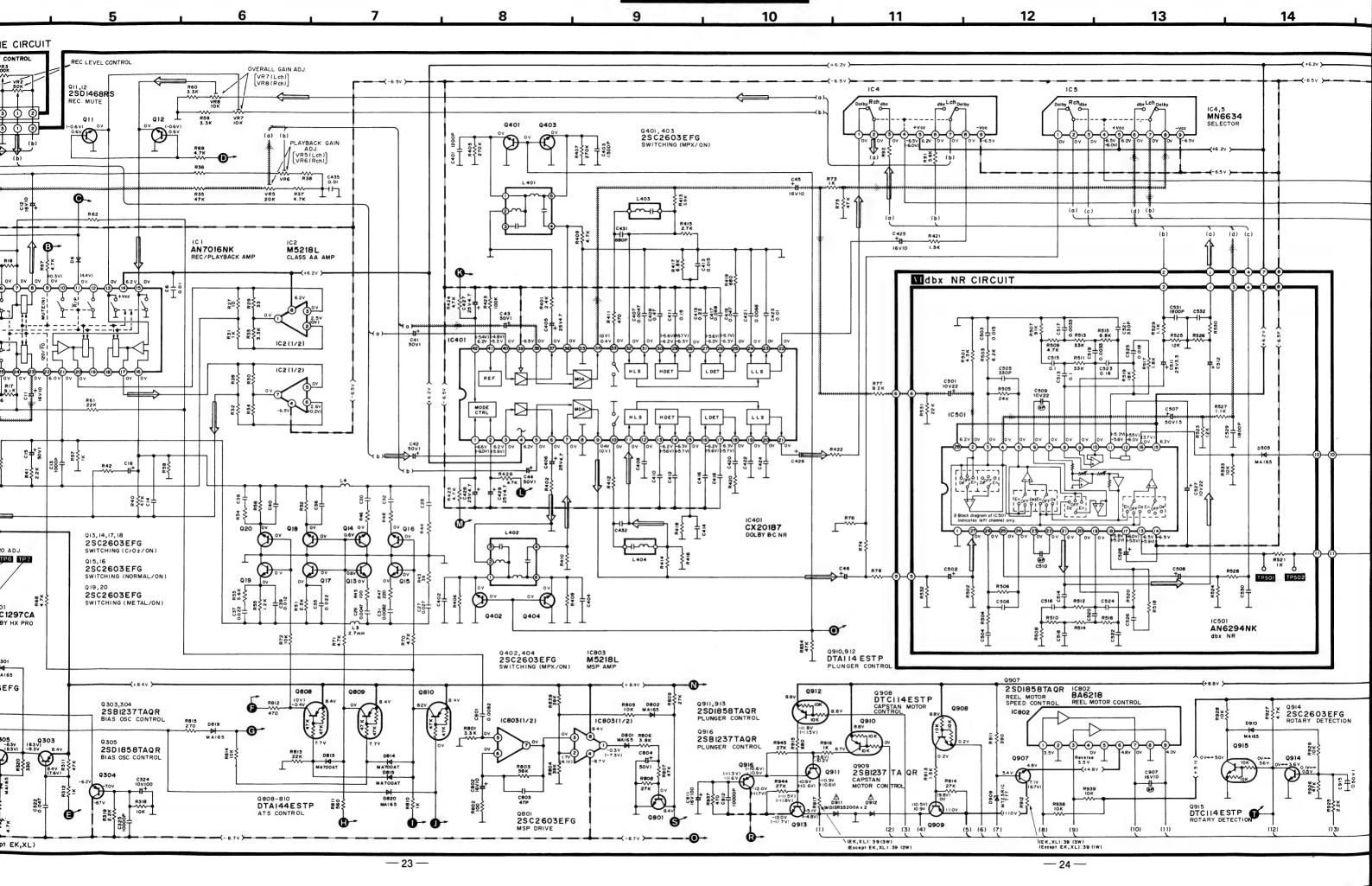
* Caution!

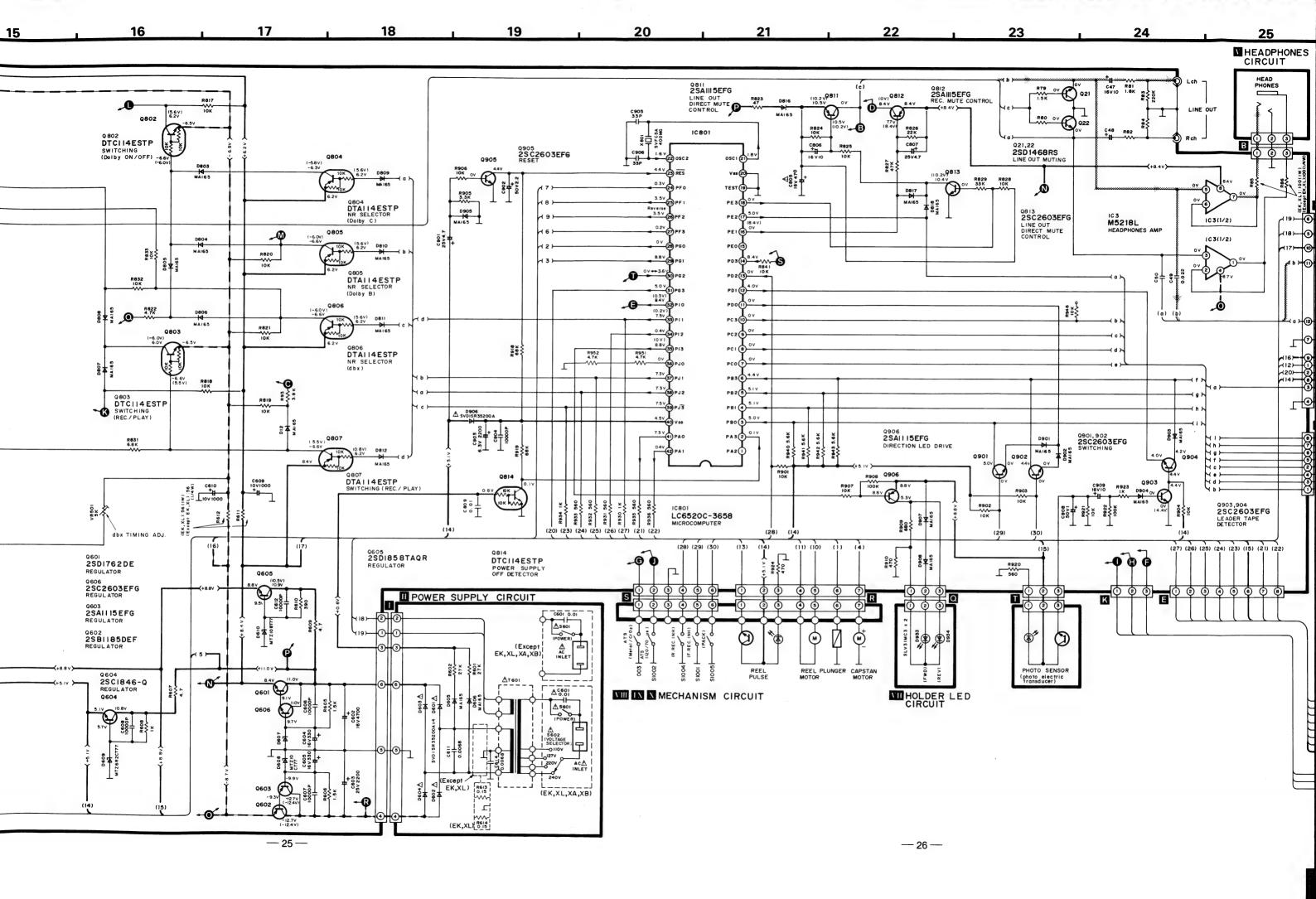
IC and LSI are sensitive to static electricity.

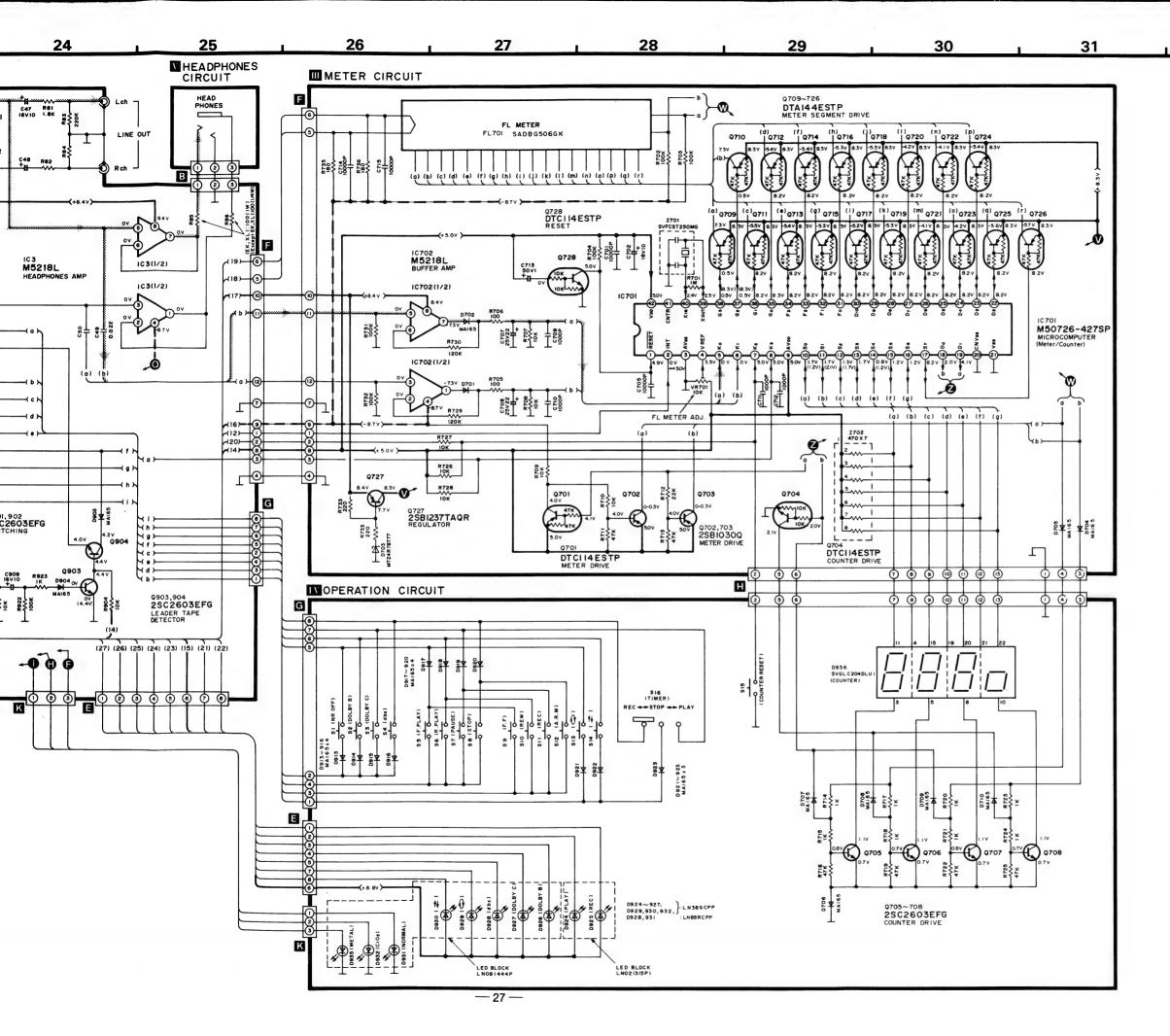
Secondary trouble can be prevented by taking care during

- * Cover the parts boxes made of plastics with aluminum foil.
- * Ground the soldering iron.
- * Put a conductive mat on the work table.
- * Do not touch the legs of IC or LSI with the fingers directly.









SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

• S1 : NR off switch in "off" position. : Dolby B NR switch in "off" position. • S2 • S3 Dolby C NR switch in "off" position.

dbx NR switch in "off" position.

Forward-side Playback switch in "off" position. • S5 • S6 Reverse-side Playback switch in "off" position.

• S7 Pause switch in "off" position.

• S8 Stop switch in "off" position.

: F.F. switch in "off" position. • S10 Rew. switch in "off" position.

Record switch in "off" position. • S11

• S12 Auto rec. mute switch in "off" position.

Reverse mode selector () in "off" position.
Reverse mode selector () in "off" position. • S13

• S15 : Tape counter reset button in "off" position.

• \$16 : Timer stand-by switch in "off" position. • \$601 : Power switch in "on" position.

 S602 Voltage selector in "240 V" position.

(EK, XL, XA, XB) areas

• \$1001: Forward-side Rec. inhibit switch in "off" position.

• S1002: ATS (120/70μs) in "off (70μs)" position.

• S1003: ATS (Metal/CrO₂) in "off (Metal)" position.

• \$1004: Reverse-side Rec. inhibit switch in "off" position.

• \$1005: Pack switch in "off" position.

• Resistance are in ohms (Ω) , 1/4 watt unless specified otherwise. $1 K = 1,000 (\Omega), 1 M = 1,000 k (\Omega)$

• Capacity are in micro-farads (μF) unless specified otherwise.

 All voltage values shown in circuitry are under no signal condition and playback mode with volume control at minimum position otherwise specified.

()...... Voltage values at record mode.

For measurement us EVM.

• Important safety notice

Components identified by △ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

+ B > indicates + B (bias).

• (BBBB< -B>BBBB) indicates -B (bias).

• () indicates the flow of the playback signal.

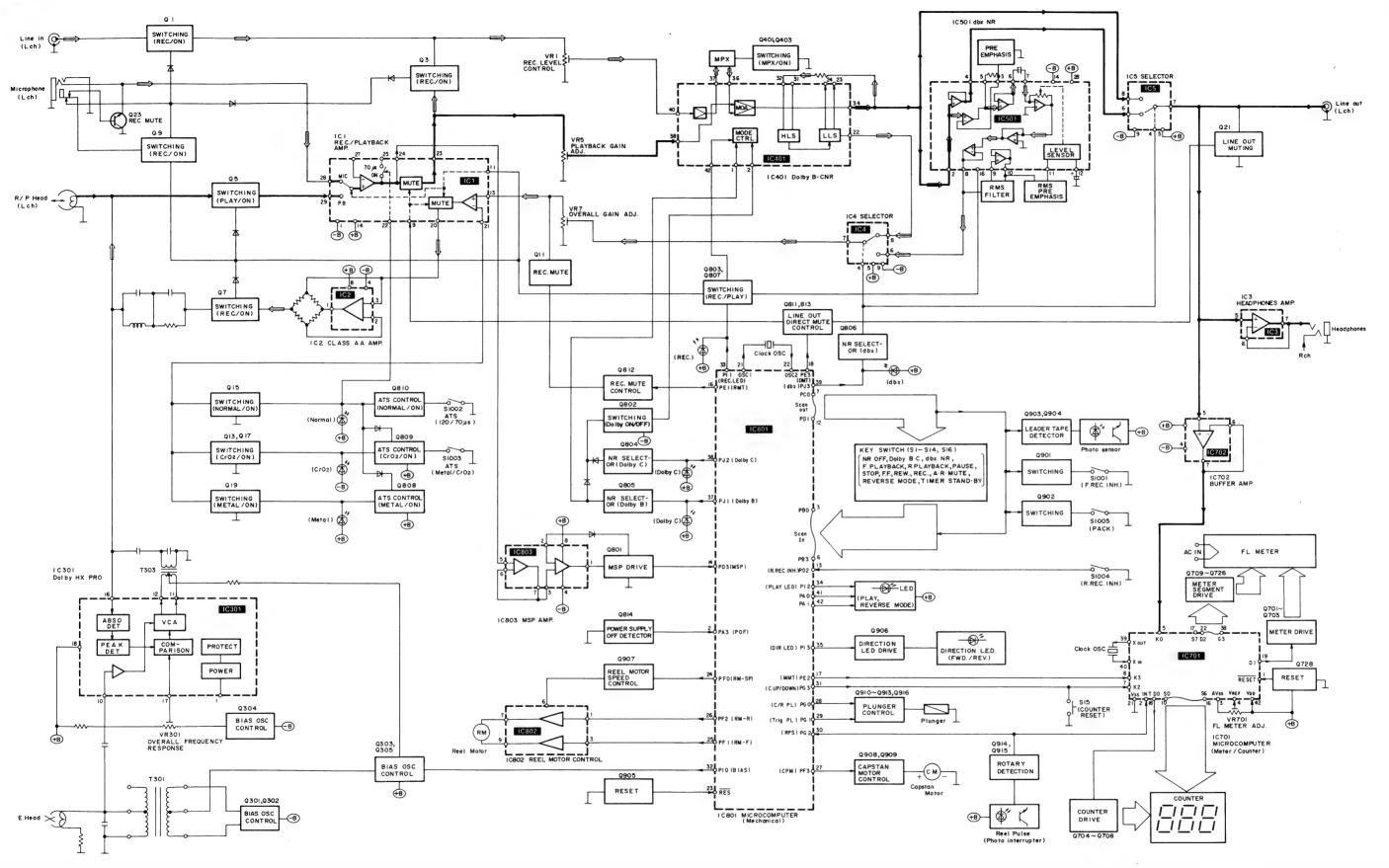
• () indicates the flow of the record signal.

* Caution!

IC and LSI are sensitive to static electricity. Secondary trouble can be prevented by taking care during

- * Cover the parts boxes made of plastics with aluminum foil.
- * Ground the soldering iron.
- * Put a conductive mat on the work table.
- * Do not touch the legs of IC or LSI with the fingers directly.

BBLOCK DIAGRAM



NOTES:

(→): Playback signal (→): Recording signal

REPLACEME

Notes: * Important safety no Components identifi manufacturer's spe * Bracketed indicatio Parts without these

Ref. No.	Part No.
INTEGRATED CIF	RCUITS
IC1	AN7016NK
IC2	M5218L
1C3	M5218L
1C4	MN6634
1C5	MN6634
I C301 I C401	UPC1297CA CX20187
1C501	AN6294NK
I C701	M50726-427SP
1C702	M5218L
1 C801	LC6520C-3658
10802	BA6218
1C803	M5218L
TRANSISTORS	
Q1	2SJ40CD
8	2SJ40CD
04	2SK381 2SK381
Q5	2SJ40CD
Q 6	2SJ40CD
Q7	2SK381
Q8	2SK381
Q9	DTA144ESTP
Q11 Q12	2SD1468R 2SD1468R
Q13	2SC2603EFG
Q14	2SC2603EFG
Q15	2SC2603EFG
Q16	2SC2603EFG
Q17	2SC2603EFG
Q18	2SC2603EFG
Q19 Q20	2SC2603EFG 2SC2603EFG
021	2SD1468R
Q22	2SD1468R
Q23	2SD1330R
Q24	2SD1330R
Q301	2SC2603EFG
Q302 Q303	2SC2603EFG 2SB1237TAQR
Q304	2SB1237TAQR
0305	2SD1858TAQR
Q307	DTA144ESTP
Q308	DTA144ESTP
Q309	DTA144ESTP
Q401	2SC2603EFG
Q402 Q403	2SC2603EFG 2SC2603EFG
Q404	2SC2603EFG
Q601	2SD1762DE
Q602	2SB1185DEF
Q603	2SA1115E
Q604	2SC1846-Q
Q605	2SD1858TAQR
Q606 Q701	2SC2603EFG DTA144ESTP
Q702	2SB1030Q
Q703	2SB1030Q.
Q704	DTC114ESTP
Q705	2SC2603EFG
Q706	2SC2603EFG
Q707 Q708	2SC2603EFG 2SC2603EFG
Q709	DTA144ESTP
Q710	DTA144ESTP
Q711	DTA144ESTP
Q712	DTA144ESTP
Q713	DTA144ESTP
Q714	DTA144ESTP
Q715	DTA144ESTP

--- 29 ---

-30-

Ref. No.

Part No.

Description

REPLACEMENT PARTS LIST

Notes: * Important safety notice:

Components identified by \(\frac{\Lambda}{\Lambda}\) mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)

Dracketed indications in riet. No. columns specify the area
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
INTEGRATED C	IRCUITS		Q716	DTA144ESTP	TRANSISTOR
IC1	AN7016NK	I.C.REC/PLAYBACK AMP	Q717	DTA144ESTP	TRANSISTOR
1C2	M5218L	I.C.CLASS AA AMP	Q718	DTA144ESTP	TRANSISTOR
1C3	M5218L	I.C.HEAD PHONE AMP	Q719	DTA144ESTP	TRANSISTOR
IC4	MN6634	I.C.SELECTOR	Q720	DTA144ESTP	TRANSISTOR
1C5	MN6634	I.C.SELECTOR	Q721	DTA144ESTP	TRANSISTOR
I C301	UPC1297CA	I.C.DOLBY HX PRO	Q722	DTA144ESTP	TRANSISTOR
I C401	CX20187	I.C.DOLBY B C NR	0723	DTA144ESTP	TRANSISTOR
I C501	AN6294NK	I.C, DBX NR	Q724 0705	DTA144ESTP	TRANSISTOR
I C701	M50726-427SP	I.C.MICRO COMPUTER	Q725 Q726	DTA144ESTP DTA144ESTP	TRANSISTOR TRANSISTOR
1 C702 1 C801	M5218L LC6520C-3658	I.C.BUFFER AMP I.C.MICRO COMPUTER	Q727	2SB1237TAQR	TRANSISTOR
1C802	BA6218	I.C.REEL MOTOR CONTROL	Q728	DTC114ESTP	TRANSISTOR
1C803	M5218L	I.C.MSP AMP	Q801	2SC2603EFG	TRANSISTOR
TRANSISTORS			Q802	DTC114ESTP	TRANSISTOR
	00.14000	TRANSLOTOR	Q803	DTC114ESTP	TRANSISTOR
Q1 ~~	2SJ40CD 2SJ40CD	TRANSISTOR	Q804	DTA114ESTP	TRANSISTOR
02 03	2SJ40CD 2SK381	TRANSISTOR TRANSISTOR	Q805	DTA114ESTP	TRANSISTOR
Q4	2SK381	TRANSISTOR TRANSISTOR	Q806	DTA114ESTP	TRANSISTOR
Q5	2SJ40CD	TRANSISTOR	Q807	DTA114ESTP	TRANSISTOR
Q6	2SJ40CD	TRANSISTOR	Q808	DTA144ESTP	TRANSISTOR
Q7	2SK381	TRANSISTOR	Q809	DTA144ESTP	TRANSISTOR
Q8	2SK381	TRANSISTOR	Q810	DTA144ESTP	TRANSISTOR
Q9	DTA144ESTP	TRANSISTOR	Q811 Q812	2SA1115E 2SA1115E	TRANSISTOR TRANSISTOR
Q11	2SD1468R	TRANSISTOR	Q813	2SC2603EFG	TRANSISTOR
Q12	2SD1468R	TRANSISTOR	Q814	DTC114ESTP	TRANSISTOR
Q13	2SC2603EFG	TRANSISTOR	Q901	2SC2603EFG	TRANSISTOR
Q14	2SC2603EFG	TRANSISTOR	0902	2SC2603EFG	TRANSISTOR
Q15	2SC2603EFG	TRANSISTOR	Q903	2SC2603EFG	TRANSISTOR
Q16	2SC2603EFG	TRANSISTOR	Q904	2SC2603EFG	TRANSISTOR
Q17	2SC2603EFG	TRANSISTOR	Q905	2SC2603EFG	TRANSISTOR
Q18	2SC2603EFG	TRANSISTOR	Q906	2SA1115E	TRANSISTOR
Q19	2SC2603EFG	TRANSISTOR	Q907	2SD1858TAQR	TRANSISTOR
Q20 Q21	2SC2603EFG 2SD1468R	TRANSISTOR TRANSISTOR	Q908	DTC114ESTP	TRANSISTOR
022	2SD1468R	TRANSISTOR	Q909	2SB1237TAQR	TRANSISTOR
023	2SD1330R	TRANSISTOR	Q910	DTA114ESTP	TRANSISTOR
024	2SD1330R	TRANSISTOR	Q911	2SD1858TAQR	TRANSISTOR
Q301	2SC2603EFG	TRANSISTOR	Q912	DTA114ESTP	TRANSISTOR
Q302	2SC2603EFG	TRANSISTOR	Q913 Q914	2SD1858TAQR 2SC2603EFG	TRANSISTOR
Q303	2SB1237TAQR	TRANSISTOR	Q915	DTC114ESTP	TRANSISTOR TRANSISTOR
Q304	2SB1237TAQR	TRANSISTOR	Q916	2SB1237TAQR	TRANSISTOR
Q305	2SD1858TAQR	TRANSISTOR	DIODES	LODICOTTACT	11040101011
Q307	DTA144ESTP	TRANSISTOR		111.105	D. 005
Q308	DTA144ESTP	TRANSISTOR	D1	MA165	DIODE
Q309	DTA144ESTP	TRANSISTOR	D2	MA165	DIODE
Q401 Q402	2SC2603EFG	TRANSISTOR	D3 D4	MA165 MA165	DIODE DIODE
Q402 Q403	2SC2603EFG 2SC2603EFG	TRANSISTOR TRANSISTOR	D4 D5	MA165	DIODE
Q404	2SC2603EFG	TRANSISTOR TRANSISTOR	D6	MA165	DIODE
Q601	2SD1762DE	TRANSISTOR	D7	MA165	DIODE
Q602	2SB1185DEF	TRANSISTOR	D8	MA165	DIODE
Q603	2SA1115E	TRANSISTOR	D9	MA165	DIODE
Q604	2SC1846-Q	TRANSISTOR	D10	MA165	DIODE
Q605	2SD1858TAQR	TRANSISTOR	D11	MA165	DIODE
Q606	2SC2603EFG	TRANSISTOR	D12	MA165	DIODE
Q701	DTA144ESTP	TRANSISTOR	D13 △	MTZ5R6B	DIODE
Q702	2SB1030Q	TRANSISTOR	D301	MA165	DIODE
Q703	2SB1030Q	TRANSISTOR	D302	MA165	DIODE
Q704	DTC114ESTP	TRANSISTOR	D304	MA165	DIODE
Q705	2SC2603EFG	TRANSISTOR	D505	MA165	DIODE
Q706	2SC2603EFG	TRANSISTOR	D601 △	SVD1SR35200A	RECTIFIER
Q707	2SC2603EFG	TRANSISTOR	D602 ∆	SVD1SR35200A	RECTIFIER
Q708 0700	2SC2603EFG	TRANSISTOR	D603 △	SVD1SR35200A	RECTIFIER
Q709 0710	DTA144ESTP	TRANSISTOR	D604 △	SVD1SR35200A	RECTIFIER
Q710 Q711	DTA144ESTP	TRANSISTOR	D605 D606	MA165	DIODE
Q711	DTA144ESTP	TRANSISTOR	D606 D607	MA165 MTZ10CT77	DIODE DIODE
Q712 Q713	DTA144ESTP DTA144ESTP	TRANSISTOR TRANSISTOR	D608	MTZ10CT77	DIODE
Q714	DTA144ESTP	TRANSISTOR TRANSISTOR	D609	MTZ6R2CT77	DIODE
Q715	DTA144ESTP	TRANSISTOR	D610	MTZ10BT77	DIODE
	PINITILOIF		1 0010		

yback signal cording signal

D702		MA165	DIODE	VR1	EWK94A033A54	V.R.REC LEVEL
		MA165	DIODE	VR2	EWK94A033A54	V.R.REC LEVEL
D703		MTZ4R7BT77	DIODE	VR3	EWHFDAF20G15	V.R.BALANCE
0704		MA165	DIODE	VR5	EVND4AA00B24	V.R.PLAYBACK GAIN
0705		MA165	DIODE	VR6	EVND4AA00B24	V.R.PLAYBACK GAIN
706		MA165	DIODE	VR7	EVND4AA00B14	V.R.OVERALL GAIN
707		MA165	DIODE	VR8	EVND4AA00B14	V.R.OVERALL GAIN
708		MA165	DIODE	VR301	EVND4AA00B14	
709		MA165	DIODE	VR302		V.R.OVERALL FREQUENCY
710		MA165	DIODE	VR303		V.R, ERASE CURRENT ADJ.
801		MA165	DIODE	VR501		V.R.DBX TIMING
802		MA165	DIODE	VR701	EVND1AA00B14	V.R.FL METER ADJ.
1803		MA165	DIODE			V.N.FE METER ADD.
804		MA165	DIODE	COILS AND TRA	NSFORMERS	
805		MA165	DIODE	L1	SLQX303-1K	CHOKE COIL
				L2	SLQX303-1K	CHOKE COIL
806		MA165	DIODE	L3	SLQX272-1YT	CHOKE COIL
807		MA165	DIODE	L4	SLQX272-1YT	CHOKE COIL
808		MA165	DIODE	L401	QLM9Z10K	M.P.X. COIL
809		MA165	DIODE	L402	Q.LM9Z10K	M.P.X. COIL
810		MA165	DIODE	L403	SLM1B12-K	COIL
811		MA165	DIODE	L404	SLM1B12-K	COIL
812		MA165	DIODE	T301	QLB0202	M.P.X. COIL
813		MA700AT	DIODE	T303	SL09B1-K	OSCILLATOR COIL
814		MA700AT	DIODE	T304	SL09B1-K	OSCILLATOR COIL
815		MA700AT	DIODE			
816		MA165	DIODE	T601 🛆	SLT5V32-W	POWER TRANSFORMER
817		MA165	DIODE	(E, EH, EG)		201152 221105021152
818		MA165	DIODE	T601 △	SLT5V33-W	POWER TRANSFORMER
819		MA165	DIODE	(EK, XL)		
820		MA165	DIODE	T601 △	SLT5V34-W	POWER TRANSFORMER
901		MA165	DIODE	(XA, XB)		
902		MA165	DIODE	COMPONENT CO	OMBINATIONS	
903		MA165	DIODE	Z1	EXRP681K223T	COMPONENT COMBINATION
904		MA165	DIODE	Z2	EXRP681K223T	COMPONENT COMBINATION
)905		MA165	DIODE	Z701	SVFCST250MG	CERAMIC FILTER
			RECTIFIER	Z702		
0906 0907	Δ	SVD1SR35200A	DIODE		EXBF8E471J	COMPONENT COMBINATION
		MA165		OSCILLATORS		
908		MA165	DIODE	X801	SVFCSA400MG	CRYSTAL OSC,
0909		MTZ5R1CT77	DIODE	DISPLAYS		
0910		MA165	DIODE		0.4.00000000000000000000000000000000000	DIODIAY TUDE
911	Δ	SVD1SR35200A	RECTIFIER	FL701	SADBG506GK	DISPLAY TUBE
)911)912	Δ Δ	SVD1SR35200A SVD1SR35200A	RECTIFIER RECTIFIER		SADBG506GK	DISPLAY TUBE
)911)912)913		SVD1SR35200A SVD1SR35200A MA165	RECTIFIER RECTIFIER DIODE	FL701 SWITCHES		
0911 0912 0913 0915		SVD1SR35200A SVD1SR35200A MA165 MA165	RECTIFIER RECTIFIER DIODE DIODE	FL701 SWITCHES S1	EVQQB005R	SW.NR OFF
0911 0912 0913 0915		SVD1SR35200A SVD1SR35200A MA165	RECTIFIER RECTIFIER DIODE DIODE DIODE DIODE	FL701 SWITCHES S1 S2	EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR
9911 9912 9913 9915 9916		SVD1SR35200A SVD1SR35200A MA165 MA165	RECTIFIER RECTIFIER DIODE DIODE	FL701 SWITCHES S1 S2 S3	EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR
0911 0912 0913 0915 0916 0917		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165	RECTIFIER RECTIFIER DIODE DIODE DIODE DIODE	FL701 SWITCHES S1 S2 S3 S4	EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DBX NR
9911 9912 9913 9915 9916 9917		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165	RECTIFIER RECTIFIER DIODE DIODE DIODE DIODE DIODE	FL701 SWITCHES S1 S2 S3 S4 S5	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DBX NR SW.FORWARD PLAYBACK
0911 0912 0913 0915 0916 0917 0918		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165	RECTIFIER RECTIFIER DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	FL701 SWITCHES S1 S2 S3 S4 S5 S6	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DBX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK
911 912 913 915 916 917 918 919		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165	RECTIFIER RECTIFIER DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE DIODE	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK SW.PAUSE
911 912 913 915 916 917 918 919 920		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165	RECTIFIER RECTIFIER DIODE	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.PEVERSE PLAYBACK SW.PAUSE SW.STOP
911 912 913 915 916 917 918 919 920 921		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165	RECTIFIER RECTIFIER DIODE	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK SW.PAUSE
9911 9912 9913 9915 9916 9917 9918 9919 9920 9921 9922		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165	RECTIFIER RECTIFIER DIODE	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.PEVERSE PLAYBACK SW.PAUSE SW.STOP
911 912 913 915 916 917 918 919 920 921 922 923		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165	RECTIFIER RECTIFIER DIODE LE.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F.
0911 0912 0913 0915 0916 0917 0918 0920 0921 0922 0923 0924 0925		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165	RECTIFIER RECTIFIER DIODE LE.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW
9911 9912 9913 9915 9916 9917 9918 9920 9920 9921 9922 9923 9924 9925		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165	RECTIFIER RECTIFIER DIODE LE.D L.E.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.FEVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE
0911 0912 0913 0915 0916 0917 0918 0919 0920 0921 0922 0923 0924 0925 0926		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 LN38GCPP LN88GCPP LN38GCPP	RECTIFIER RECTIFIER DIODE LIODE L.E.D L.E.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.FEVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE
911 912 913 915 916 917 918 919 920 921 922 923 924 925 926 927 928		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 LN38GCPP LN38GCPP LN38GCPP LN38GCPP LN38GCPP LN38GCPP LN38GCPP	RECTIFIER RECTIFIER DIODE LE.D L.E.D L.E.D L.E.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.REVERS MODE
0911 0912 0913 0915 0916 0917 0918 0920 0921 0922 0922 0923 0924 0925 0927 0928		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 LN38GCPP LN88GCPP LN38GCPP	RECTIFIER RECTIFIER DIODE LIODE DIODE LE.D L.E.D L.E.D L.E.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15	EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.REVERS MODE SW.REVERS MODE SW.TAPE COUNTER RESET
0911 0912 0913 0915 0916 0917 0918 0920 0921 0922 0922 0923 0924 0925 0927 0928		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 LN38GCPP LN38GCPP LN38GCPP LN38GCPP LN38GCPP LN38GCPP LN38GCPP	RECTIFIER RECTIFIER DIODE LE.D L.E.D L.E.D L.E.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16	EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.REVERS MODE SW.TAPE COUNTER RESET SW.TIMER STAND BY
9911 9912 9913 9915 9916 9917 9918 9920 9921 9922 9922 9924 9925 9926 9927 9928 9929 9930		SVD1SR35200A SVD1SR35200A MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 MA165 LN38GCPP LN38GCPP LN38GCPP LN38GCPP LN38GCPP LN38GCPP LN38GCPP	RECTIFIER RECTIFIER DIODE LIODE DIODE LE.D L.E.D L.E.D L.E.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S801	EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.FEVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.REVERS MODE SW.TAPE COUNTER RESET SW.TIMER STAND BY SW.POWER
0911 0912 0913 0915 0916 0917 0918 0919 0920 0921 0922 0923 0924 0925 0926 0927 0928 0929		SVD1SR35200A SVD1SR35200A MA165 LN38GCPP	RECTIFIER RECTIFIER DIODE LE.D L.E.D L.E.D L.E.D L.E.D L.E.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S802 Δ	EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.REVERS MODE SW.TAPE COUNTER RESET SW.TIMER STAND BY
0911 0912 0913 0915 0916 0917 0918 0919 0920 0921 0922 0923 0924 0925 0926 0927 0928 0929 0929 0929		SVD1SR35200A SVD1SR35200A MA165 MA16	RECTIFIER RECTIFIER DIODE LIODE DIODE LE.D L.E.D L.E.D L.E.D L.E.D L.E.D L.E.D L.E.D L.E.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S601 \$600 (EK, XA, XB)	EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.FEVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.REVERS MODE SW.TAPE COUNTER RESET SW.TIMER STAND BY SW.POWER
0911 0912 0913 0915 0916 0916 0917 0918 0919 0920 0921 0922 0923 0924 0925 0926 0927 0928 0929 0930 0931		SVD1SR35200A SVD1SR35200A MA165 LN38GCPP SLV31MC3	RECTIFIER RECTIFIER DIODE LE.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S601 △ S602 △ (EK, XA, XB) (XL)	EVQQB005R EVQQB005R	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.TAPE COUNTER RESET SW.TIMER STAND BY SW.POWER SW.VOLTAGE SELECTOR
9911 9912 9913 9915 9916 9916 9917 9918 9919 9920 9921 9922 9923 9924 9925 9926 9927 9928 9929 9930		SVD1SR35200A SVD1SR35200A MA165 MA16	RECTIFIER RECTIFIER DIODE LE.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S601	EVQQB005R SSS147-1 ESB8249V SSR187-1	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.DEX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.REVERS MODE SW.TAPE COUNTER RESET SW.TIMER STAND BY SW.POWER SW.VOLTAGE SELECTOR
0911 0912 0913 0915 0916 0917 0918 0919 0920 0921 0922 0923 0924 0925 0926 0929 0929 0929 0929 0929 0929 0929 0929 0939		SVD1SR35200A SVD1SR35200A MA165 LN38GCPP	RECTIFIER RECTIFIER DIODE LE.D LE.D LE.D LE.D LE.D LE.D LE.D LE	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S602	EVQQB005R EVQQB0	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.FEVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.REVERS MODE SW.TAPE COUNTER RESET SW.TIMER STAND BY SW.POWER SW.VOLTAGE SELECTOR
9911 9912 9913 9915 9916 9916 9917 9918 9919 9920 9921 9922 9923 9924 9925 9926 9927 9928 9929 9930 9931 9930 9931 9930 9931 9932 9933 9934 9933 9936 9937 9937 9937 9937 9938 9938 9939	Δ.	SVD1SR35200A SVD1SR35200A MA165 LN38GCPP	RECTIFIER RECTIFIER DIODE LE.D L.E.D	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S601	EVQQB005R SSS147-1 ESB8249V SSR187-1	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.DEX NR SW.FORWARD PLAYBACK SW.REVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.REVERS MODE SW.TAPE COUNTER RESET SW.TIMER STAND BY SW.POWER SW.VOLTAGE SELECTOR
9911 9912 9913 9915 9916 9916 9917 9918 9919 9920 9922 9923 9924 9925 9926 9926 9927 9928 9929 9930 9931 9930 9931 9930 9931 9930		SVD1SR35200A SVD1SR35200A MA165 LN38GCPP	RECTIFIER RECTIFIER DIODE LE.D LE.D LE.D LE.D LE.D LE.D LE.D LE	FL701 SWITCHES S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S602	EVQQB005R EVQQB0	SW.NR OFF SW.DOLBY B NR SW.DOLBY C NR SW.DDX NR SW.FORWARD PLAYBACK SW.FEVERSE PLAYBACK SW.PAUSE SW.STOP SW.F.F. SW.REW SW.RECORD SW.AUTO REC MUTE SW.REVERS MODE SW.REVERS MODE SW.TAPE COUNTER RESET SW.TIMER STAND BY SW.POWER SW.VOLTAGE SELECTOR

Ref. No.

Part No.

Description

MECHANICAL PARTS LOCATION

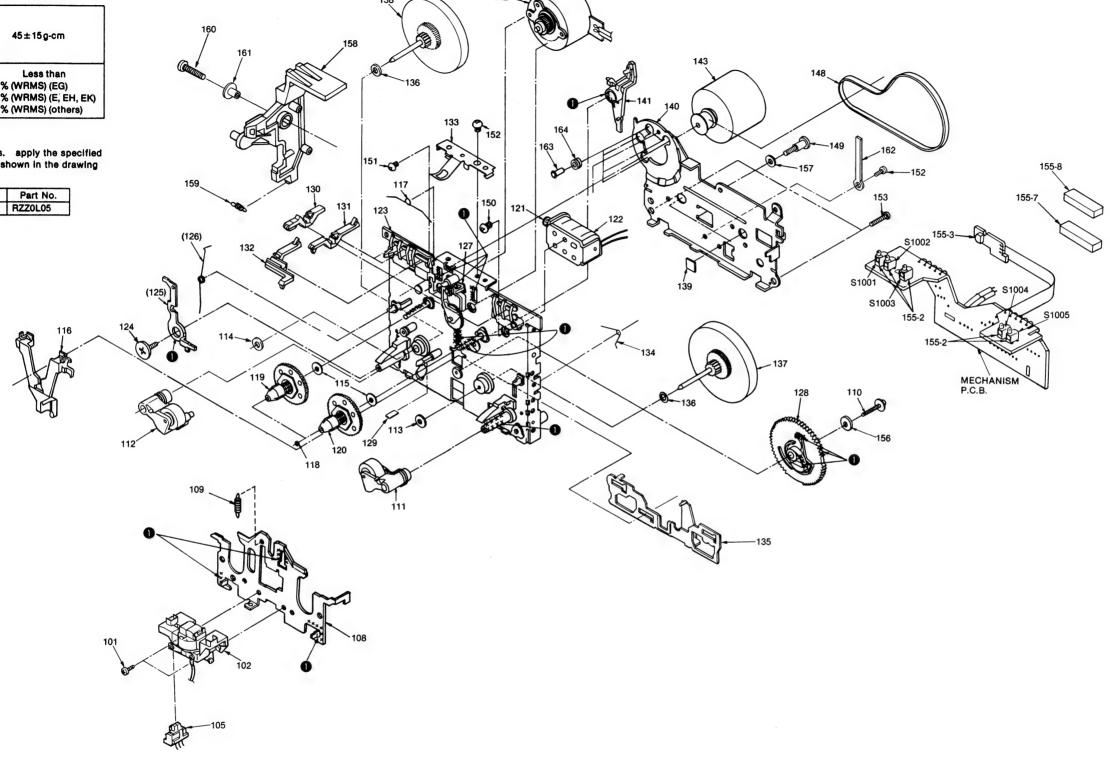
SPECIFICATIONS
NOTE: The value indicated by the torque tape may fluctuate during torque measurement.
In that case, obtain the middle of the values.

Takenup tension * Use cassette torque meterQZZSRKCT	45±15g-cm
Wow and flutter * Use test tapeQZZCWAT	Less than 0.07% (WRMS) (EG) 0.08% (WRMS) (E, EH, EK) 0.08% (WRMS) (others)

NOTES:

When changing mechanism parts. apply the specified grease to the are marked "x x" shown in the drawing "Mechanical Parts Location".

Ref. No.	Part Name	Part No.
0	MOLYKOTE	RZZ0L05



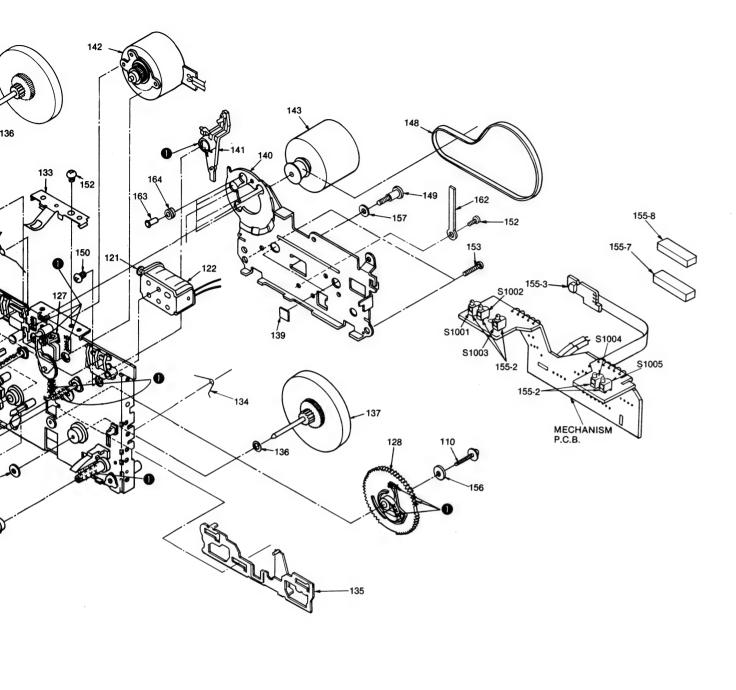
		159 160			158 1	51	152	2 150 142 162	161 163 164 14	1 143	157 148 149 16	2 156 153 163	3 164	165
124 1	125	126	132	130	131	123	133 127	121	122 134	140 139 136	137 128	155-2	155-3	155-7 155-8
101106116 102 10111210	07 1	04 109 109	5 102119 114	118	120115	108 111113	117				11	10		

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REPLACE

114 SMQA109 115 SMQA101 116 SMQA101 117 SMQA102 118 SMQA101 119 SMQA101 120 SMQA102 121 SMQA121 122 SMQA123 123 SMQA125 124 SMQA125 125 SMQA105 126 SMQA105 127 SMQA106 127 SMQA106 128 SMQA105 129 SMQA105 130 SMQA128 131 SMQA128	Ref. No.	Part No
102 SMQA126 105 SMQA122 108 SMQA122 109 SMQA100 110 SMQA123 111 SMQA123 112 SMQA103 114 SMQA109 115 SMQA101 116 SMQA105 117 SMQA102 118 SMQA101 119 SMQA101 120 SMQA101 120 SMQA102 121 SMQA102 121 SMQA101 122 SMQA102 123 SMQA102 124 SMQA123 125 SMQA103 126 SMQA103 127 SMQA105 128 SMQA105 129 SMQA105 120 SMQA105 121 SMQA123 122 SMQA123 123 SMQA125 124 SMQA123 125 SMQA105 126 SMQA105 127 SMQA106 128 SMQA105 129 SMQA125 130 SMQA128		
105 SMQA122 108 SMQA122 109 SMQA100 110 SMQA123 111 SMQA123 112 SMQA100 114 SMQA103 115 SMQA101 116 SMQA105 117 SMQA101 118 SMQA101 119 SMQA101 120 SMQA102 121 SMQA102 121 SMQA102 122 SMQA102 123 SMQA102 124 SMQA123 125 SMQA103 126 SMQA103 127 SMQA103 128 SMQA105 127 SMQA106 127 SMQA106 128 SMQA105 129 SMQA105 129 SMQA105 120 SMQA105 121 SMQA105 122 SMQA105 123 SMQA105 124 SMQA105 125 SMQA105 126 SMQA105 127 SMQA106 128 SMQA105 129 SMQA105 130 SMQA128		
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114 SMQA109 115 SMQA101 116 SMQA101 117 SMQA102 118 SMQA101 119 SMQA101 120 SMQA102 121 SMQA102 122 SMQA123 123 SMQA123 124 SMQA123 125 SMQA105 126 SMQA106 127 SMQA106 127 SMQA106 128 SMQA105 129 SMQA105 130 SMQA128 131 SMQA128		
115 SMQA101 116 SMQA105 117 SMQA105 117 SMQA102 118 SMQA101 119 SMQA101 120 SMQA102 121 SMQA122 122 SMQA123 123 SMQA125 124 SMQA125 125 SMQA105 126 SMQA101 127 SMQA106 127 SMQA106 128 SMQA105 129 SMQA105 130 SMQA128		SMQA1007
116 SMQA105 117 SMQA102 118 SMQA101 119 SMQA101 120 SMQA102 121 SMQA123 122 SMQA123 123 SMQA125 124 SMQA125 125 SMQA105 126 SMQA105 127 SMQA106 127 SMQA106 128 SMQA125 129 SMQA105 130 SMQA125	14	SMQA1091
117 SMQA102 118 SMQA101 119 SMQA101 120 SMQA102 121 SMQA121 122 SMQA123 123 SMQA125 124 SMQA125 125 SMQA105 126 SMQA101 127 SMQA106 128 SMQA105 129 SMQA105 130 SMQA128	15	SMQA1014
118 SMQA101 119 SMQA101 120 SMQA102 121 SMQA121 122 SMQA123 123 SMQA125 124 SMQA123 125 SMQA105 126 SMQA101 127 SMQA106 128 SMQA125 129 SMQA125 130 SMQA128	16	SMQA1056
119 SMQA101 120 SMQA102 121 SMQA121 122 SMQA123 123 SMQA125 124 SMQA125 125 SMQA105 126 SMQA106 127 SMQA106 128 SMQA105 129 SMQA105 130 SMQA128 131 SMQA125	17	SMQA1027
120 SMQA102 121 SMQA121 122 SMQA123 123 SMQA125 124 SMQA125 125 SMQA105 126 SMQA101 127 SMQA106 128 SMQA105 129 SMQA105 130 SMQA128	18	SMQA1010
121 SMQA121 122 SMQA123 123 SMQA125 124 SMQA125 125 SMQA105 126 SMQA106 127 SMQA106 128 SMQA125 129 SMQA125 130 SMQA128	19	SMQA1013
122 SMQA123 123 SMQA125 124 SMQA125 125 SMQA105 126 SMQA101 127 SMQA106 128 SMQA125 129 SMQA125 130 SMQA128	20	SMQ.A1026
123 SMQA125 124 SMQA105 125 SMQA105 126 SMQA101 127 SMQA106 128 SMQA125 129 SMQA105 130 SMQA128	21	SMQA1212
124 SMQA123 125 SMQA105 126 SMQA101 127 SMQA106 128 SMQA125 129 SMQA125 130 SMQA128	22	SMQA1233
125 SMQA105 126 SMQA101 127 SMQA106 128 SMQA125 129 SMQA105 130 SMQA128 131 SMQA125	23	SMQA1257
126 SMQA101: 127 SMQA106 128 SMQA125 129 SMQA105 130 SMQA128 131 SMQA125	24	SMQA1235
127 SMQA106 128 SMQA125 129 SMQA105 130 SMQA128 131 SMQA125	25	SMQA1055
128 SMQA125 129 SMQA105 130 SMQA128 131 SMQA125	26	SMQA1012
129 SMQA105 130 SMQA128 131 SMQA125	27	SMQA1061
130 SMQA128 131 SMQA125	28	SMQA1258-
131 SMQA125	29	SMQA1054
	30	SMQA1282
132 SMQA123	31	SMQA1259
	32	SMQA1237



15	52 150 142 162	161 163 164 141	143	157 148 149 162	156 153 163 164	165
133 127	121	122 134	140 139 136	137 128	155-2 155-3	155-7 155-8
3 117				110		

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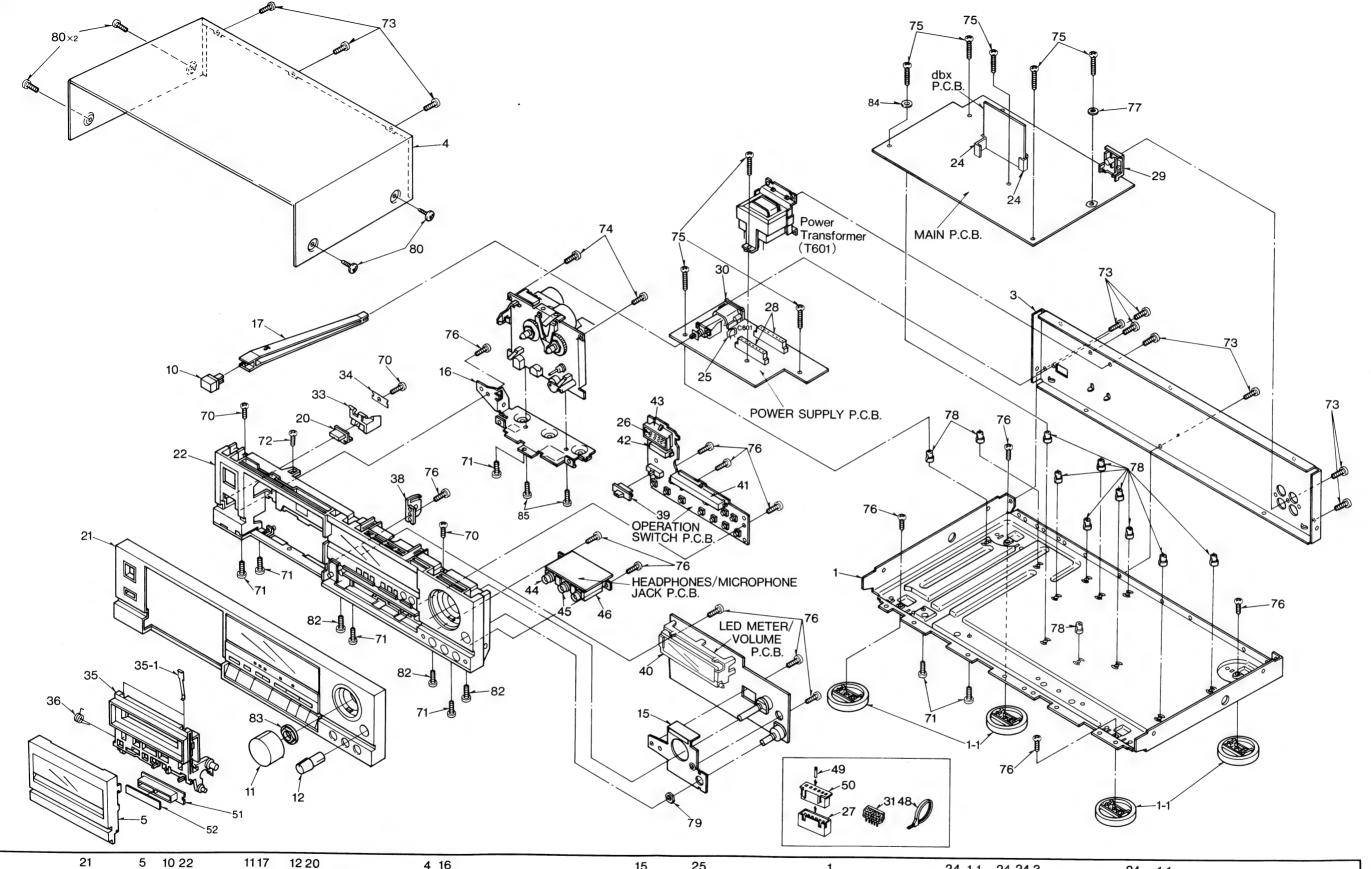
REPLACEMENT PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
CASSETTE DECK		133	SMQA1062	PLATE	
101	XYN2+C5	SCREW	134	SMQ.A1238	SLIDE SP
102	SMQA1269	HEAD	135	SMQA1239	SLIDE BOARD
105	SMQ.A1228	PHOTO ELECTRIC TRANSDUCER	136	SMQA1031	WASHER
108	SMQ.A1229	HEAD BASE	137	SMQ.A1032	WHEEL
109	SMQ.A1004	SPRING	138	SMQA1096	WHEEL
110	SMQA1230	SCREW .	139	SMQ.A1097	SPACER
111	SMQA1231	PINCH ROLLER	140	SMQ.A1240	BRACKET
112	SMQA1232	PINCH ROLLER	141	SMQA1241	ARM
113	SMQ.A1007	WASHER			
114	SMQ.A1091	WASHER (LABEL)	142	SMQ.A1242	MOTOR (REEL)
115	SMQ.A1014	WASHER	143	SMQ.A1283	MOTOR (MAIN)
116	SMQ.A1056	HOLD LEVER	148	SMQA1074	FLAT BELT
117	SMQ.A1027	SPRING	149	SMQA1247	SCREW
118	SMQA1010	WASHER	150	XYN26+C4	SCREW
119	SMQA1013	REEL	151	XYN26+C6	SCREW
120	SMQA1026	REEL	152	XSN3+5S	SCREW
121	SMQA1212	PLUNGER CAP	153	XTN26+8J	SCREW
122	SMQ.A1233	PLUNGER COIL	154	SMQ.A1076	HOLDER
123	SMQ.A1257	CHASSIS ASS/Y	155-2	SMQ.A1252	SW
124	SMQ.A1235	SCREW	155-3	SMQ.A1041	PH. INTERRUPTER
125	SMQA1055	ARM	155-7	SJT30643-V	CONNECTOR(6P)
			155-8	SJT30740LX-V	CONNECTOR(7P)
126	SMQ.A1012	SPRING	156	XWE2	WASHER
127	SMQ.A1061	IDLER PULLEY	157	XWA26B	WASHER
128	SMQA1258-1	GEAR	159	SMQ.A1267-1	EJECT ARM
129	SMQA1054	PLATE	160	XSN3+10S	SCREW
130	SMQ.A1282	LEVER	161	SMQ.A1284	COLLOR
131	SMQA1259	LEVER	162	SMQA1071	TERMINAL
132	SMQ.A1237	METAL LEVER	163	SMQA1078	SCREW
			164	SMQA1077	RUBBER SPACER

— 35 —

RS-B608R

CABINET PARTS LOCATION



5 10 22 1117 12 20 4 16 25 15 24 1-1 24 24 3 24 1-1 36 35 35-1 33 34 46 26 42 40 43 39 30 41 28 49 50 27 38 44 45 3148 29 80×2 7052518371 72 82 71 70 82 73 71 80×2 70 76 85 71 82 70 74 75 76 79 76 76 84 76 75 7178 7676 75 73 77 78 73 73 76

> — 36 — --- 37 ---

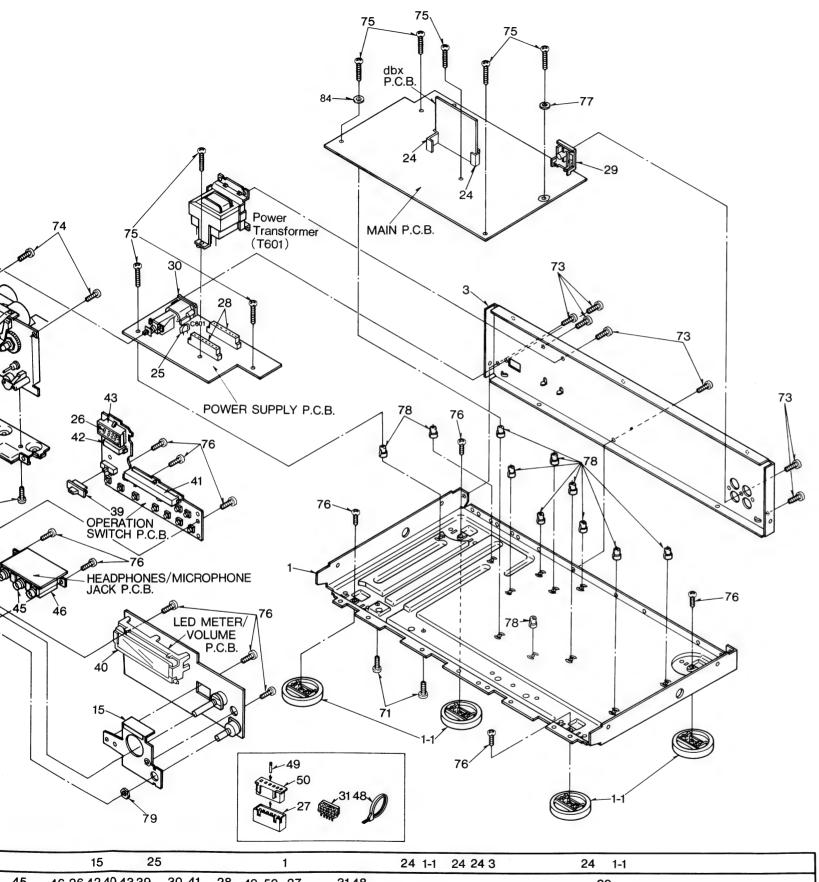
REPLACEME

Notes: * Important safet
Components id
manufacturer's
* Bracketed indic
Parts without th

- * "\(\overline{\mathbb{N}}\)" mark parts * "\(\overline{\mathbb{S}}\)" mark parts

	Parts	other tha
Ref.	No.	Part No
CABINE	ET AND CI	HASSIS
1		SKUSB608-I
1-1		SKL313
(EK)		SGP7160-1J
3 (XL)		SGP7160-1K
3 (XA, XE	2)	SGP7160-1L
3	5)	SGP7160W
(E)		
3 (EH, EG	G)	SGP7160X
4	®	SKC2111K99
4	S	SKC2111S98
5	Ø	SGE1914
5	S	SGE1914-1
10	Ø	SBC666-5
10	S	SBC666
11	®	SYTM10ZCO
11	(S) (K)	SYTM10ZSO
12 12	8	SBDM10ZKO
15	3	SUWSB608R
16		SMQ30051
17		SUB268
120	(R)	SBC736-1
20	S	SBC736
21	Ø.	SGWSB608-K
21	S	SGWSB608-S
22	1	SGXSB608-k
22	S	SGXSB608-5
24		SME103-4
25		SMX897
26		SVGLC204DI
27		EMCS1350ZL
27 27		SJSD0805 SJT3319
27		SJT3511
28		SJS501
29		SJF3057N
	Δ	SJSD16
(XL)		

Hel. No.	Part No.					
PACKING MATERIAL						
P1 ⊗	SPGM115					
P1	SPGM116					
P2	SPS5037-1					
P3	SPS5038-1					
P4	XZB50X65B0					
ACCESSORIES						
A1	SQF13188					
(XB)						
A1	SQF13189					
(E, EH)						
A1	SQF13190					
(XL, EK, XA)						
l						



46 26 42 40 43 39 30 41 28 49 50 27 3148 29 82 70 74 75 76 79 76 84 76 75 7178 76 7676 75 73 77 78 73 76 73

REPLACEMENT PARTS LIST

Notes: * Important safety notice:

Components identified by \(\triangle \) mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.

* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)

Parts without these indications can be used for all areas.

*"(\(\hat{k}\)" mark parts are used for black type only.

*"(\(\hat{S}\)" mark parts are used for silver type only.

Parts other than "(\(\hat{k}\)" and "(\(\hat{S}\)" marked are used for all color types.

Ref.	No.	Part No.	Description	Ref. N	0.	Part No.	Description	
CABINET AND CHASSIS		30 Д	7	SJS9236	AC INLET			
1		SKUSB608-KE	BOTTOM BOARD ASS/Y	(E, EK, EH	I, EG)			
1-1		SKL313	FOOT	(XA, XB)				
3		SGP7160-1J	REAR PANEL	31		SJT30340LX-V	CONNECTOR(3P)	
(EK)				31		SJT30543-V	CONNECTOR(5P)	
3		SGP7160-1K	REAR PANEL	31		SJT30643-V	CONNECTOR(6P)	
(XL)				31		SJT30843-V	CONNECTOR(8P)	
3		SGP7160-1L	REAR PANEL	31		SJT31243-V	CONNECTOR(12P)	
(XA, X	(B)			33		SUB236-2	EJECT LEVER	
3		SGP7160W	REAR PANEL	34		SUW3090	BRACKET	
(E)				35		SGXSB505-KE1	CASSETTE HOLDER	
3		SGP7160X	REAR PANEL	35-1		QBP2006A	SPRING	
(EH, E				36		SUS869	LEAF SPRING	
4	Ø	SKC2111K99	CABINET BODY	38	_	SKJSB405-KE	GEAR	
4	(\$)	SKC2111S98	CABINET BODY	39 (8		SBD145	KNOB	
5	(8)	SGE1914	CASSETTE LID	39 ©	3)	SBD145-1	KNOB	
5	S	SGE1914-1	CASSETTE LID	40		SHRM9021	HOLDER(FL)	
10	€	SBC666-5	BUTTON, POWER	41		LN081444P	LED BLOCK ASS/Y	
10	S	SBC666	BUTTON, POWER	42		LN021315P1	LED BLOCK ASS'Y	
11	®	SYTM10ZCOA	KNOB	43		SHRM9021	HOLDER(FL)	
11	S	SYTM10ZS0A	KNOB	44		SJJ126B	JACK(HEADPHONES)	
12	®	SBDM10ZK0A	KN0B	45		SJJ127HH	JACK	
12	(\$)	SBDM10MA0A	KNOB	46		SUW3092	BRACKET	
15		SUWSB608R-KE	BRACKET ASS/Y	48		QTD1333	CORD CLAMPER	
16		SMQ30051	BRACKET	48		SHR301	CLAMPER	
17	_	SUB268	ROD	51		SMP423	ANGLE	
20	Ø	SBC736-1	BUTTON	52		SHRM5010	PLASTIC SPACER	
20	(\$)	SBC736	BUTTON	SCREWS.	WASHE	RS AND NUTS		
21	⊗	SGWSB608-KE	FRONT PANEL ASS'Y	70		XTB3+8J	SCREW	
21	8	SGWSB608-SE	FRONT PANEL ASS'Y	71		XTB3+6JFZ	SCREW	
22	®	SGXSB608-KE	FRONT GRILL ASS/Y	72		XTB3+6FFR	SCREW	
22	(\$)	SGXSB608-SE	FRONT GRILL ASS'Y	73		XTB3+8JFZ	SCREW	
24		SME103-4	SHIELD PLATE	74		XTB3+12JFR	SCREW	
25		SMX897	COVER	75		XTB3+20J	SCREW	
26		SVGLC204DLU1	LED(COUNTER)	76		XTBS3+10J	SCREW	
27		EMCS1350ZL	SOCKET(13-P)	177		XWA3B	WASHER	
27		SJSD0805	CONNECTOR	78		SHE187-2	HOLDER	
27		SJT3319	CONNECTOR(3P)(3-P)	79		XNS8FZ	NUT	
27		SJT3511	CONNECTOR(5P)(2-P)	80 08	O	SNE2129-1	SCREW	
28		SJS501	SOCKET(5P)	80 (\$	3	SNE2129	SCREW	
29		SJF3057N	TERMINAL BOARD	82		XTS3+8JFZ	SCREW	
30	Δ	SJSD16	AC INLET	83		SNE4021	NUT	
(XL)				84		XWE3E10	WASHER	
				85		XTB3+8JFR	SCREW	

Ref. No	Part No.	Description	Ref. No.	Part No.	Description
PACKING I	MATERIAL		A1	SQF13191	INSTRUCTION MANUAL
P1 & P1 & P2 P3 P4		PACKING CASE PACKING CASE PAD PAD POLY SHEET	(EG) A2 A3	SJPK2202-1 SFDAC05G02 SJA168	CORD POWER CORD POWER CORD
ACCESSOR A1 (XB)	SQF13188	INSTRUCTION MANUAL	(XA) A3	SJA171	POWER CORD
A1 (E, EH)	SQF13189	INSTRUCTION MANUAL	A3 Δ (XL)	SJA173	POWER CORD POWER CORD
A1 (XL, EK, X/	SQF13190 A)	INSTRUCTION MANUAL	A3	SJA183 RJP120ZBS -H	AC PLUG ADAPTOR

Cassette Deck

ervice Man

Supplement dbx /Dolby NR Equipped Stereo Cassette Deck

DOLBY B.C NR HX PRO

RS-B608R

Color

(S) ... Silver Type (K) ... Black Type

MICa		
Country Code	Area	Color
(E)	Continental Europe.	(K)(S)
(EK)	United Kingdom.	(K)(S)
(EG)	F.R. Germany.	(K)(S)
(EH)	Holland.	(K)(S)
(XA)	Asia, Latin America, Middle Near East, Africa and Oceania.	(K)(S)
(XL)	Australia.	(K)(S)
(XB)	Saudi Arabia.	(K)(S)

* HX Pro headroom extension originated by Bang Olufsen and manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY", the double-D symbol, and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

** The term dbx is a registered trademark of dbx Inc.

Please file and use this supplement manual together with the service manual for Model No. RS-B608R, Order No. HAD8804111C8.

Note:

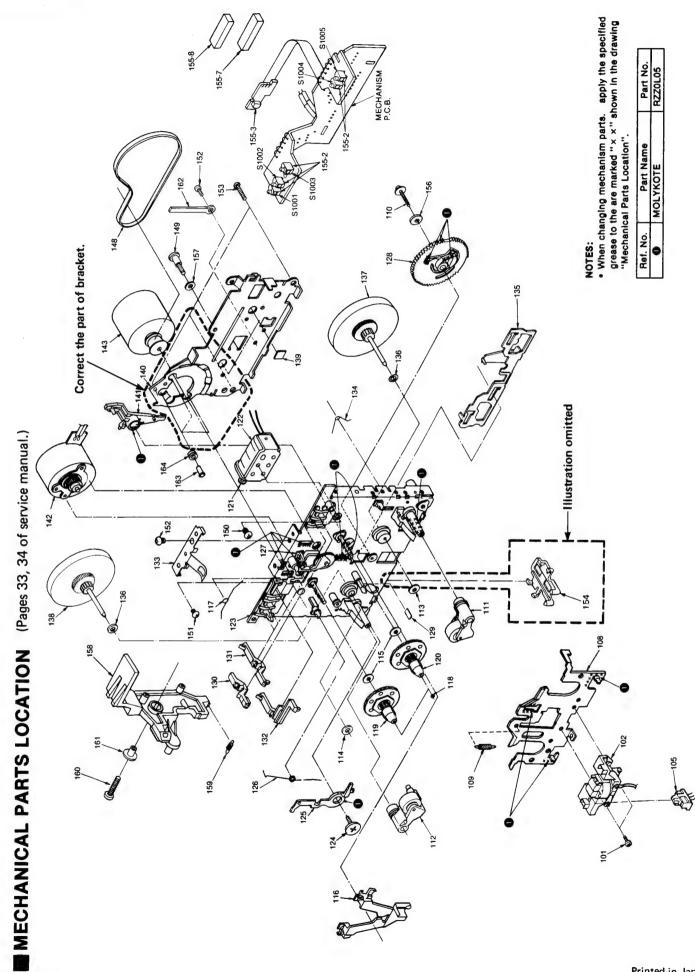
• This supplement has been issued to inform you that the correct an error in the "Mechanical Parts Location" on pages 33, 34 and "Replacement Parts List" on page 35.

CORRECTION

IREPLACEMENT PARTS LIST (Page 35 of service manual.)

Ref. No.	Change	of Part No.		Remarks
	ORIGINAL	NEW	Part Name & Description	
CASSETTE D	DECK			
123	SMQA1257	SMQA1285	CHASSIS ASS'Y	Correction
158		SMQA1267-1	EJECT ARM	Addition
159	SMQA1267-1	SMQA1019	SPRING	Correction

Continue –



ORDER NO. AD8907229S8

RS-B608R

Service Manual

D0

dbx/Dolby NR Equipped
Stereo Cassette Deck

DOLBY B-C NR HX PRO

RS-B608R

Color

(S) ... Silver Type (K) ... Black Type

Area

Area
(E) Continental Europe.
(EK) United Kingdom.
(EG) F.R. Germany.
(EH) Holland.
(XA) Asia, Latin
America, Middle
Near East, Africa
and Oceania.
(XL) Australia.
(XB) Saudi Arabia.

CORRECTION

Please file and use this supplement manual together with the service manual for Model No. RS-B608R, Order No. HAD8804111C8.

- The schematic diagram of the RS-B608R on Page 22~25 of the Service Manual (Order No. HAD8804111C8) was changed. (Transistors Q307~Q309 were added.)
- •The replacement parts list on page 31 has not been modified.

Technics

Matsushita Electric Industrial Co., Ltd.

Central P.O. Box 288, Osaka 530-91, Japan

PRINTED CIRCUIT BOARDS (New) MAIN P.C.B. LINE IN LINE OUT HX-PRO ADJ. TEST POINT -2RS-B608R



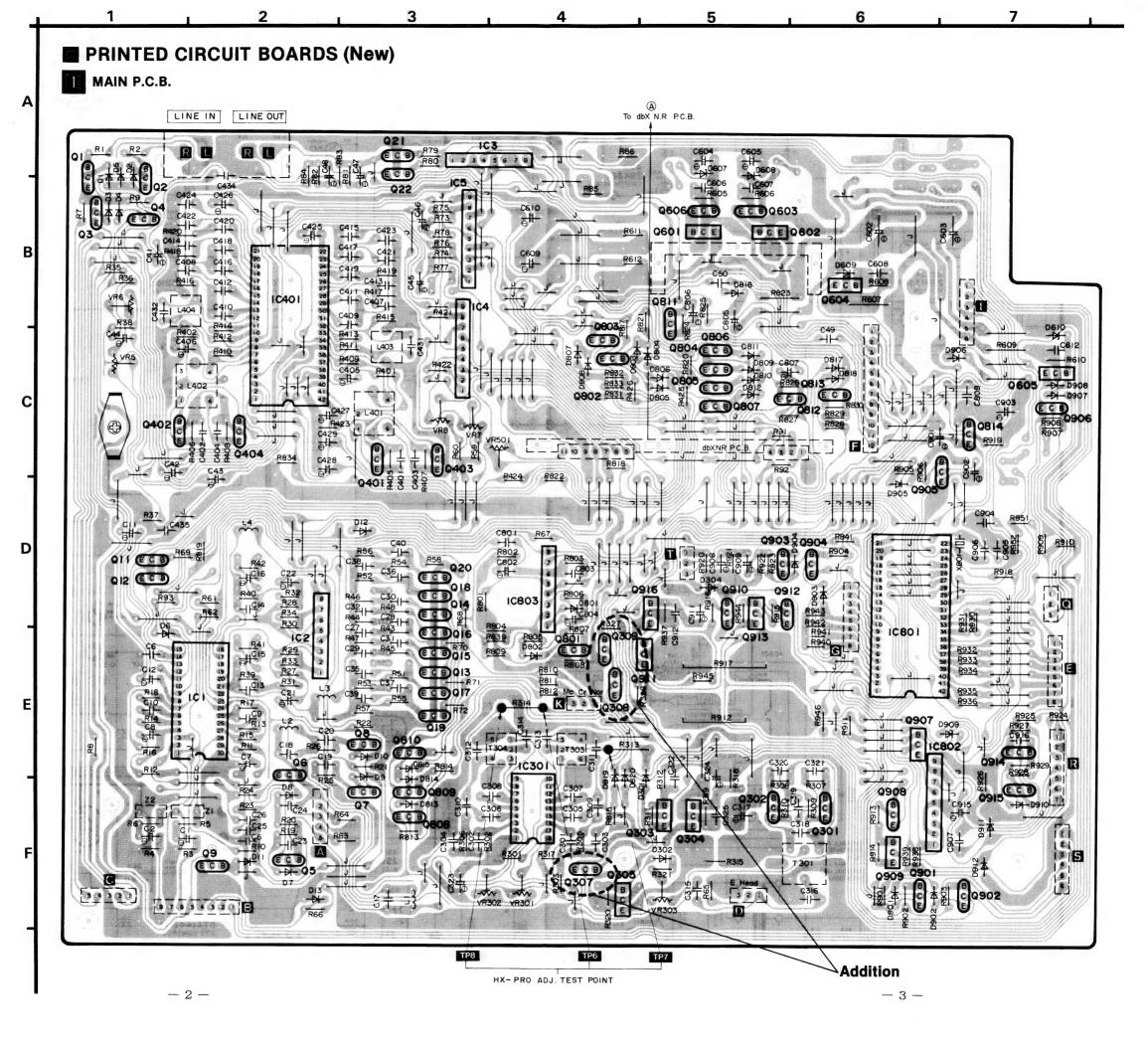
lor

S) ...Silver Type K) ...Black Type

Area
Continental Europe.
Inited Kingdom.
C.R. Germany.
Iolland.
Isia, Latin
Imerica, Middle
Iear East, Africa
Ind Oceania.

ustralia. audi Arabia.

ndustrial Co., Ltd. 288, Osaka 530-91, Japan



RS-B608R

RS-B608R **SCHEMATIC** 3 **DIAGRAM** MAIN CIRCUIT III VOLUME CIRCUIT (Page 22~24, 25) Q1,2 2SJ40CD SWITCHING(REC/ON) REC LEVEL CONTROL OVERALL GAIN ADJ. **Ф** 2SD1468F LINE IN R59 3.3K 8 ¥ (0V) P Q401, 403 25C26O3EFG SWITCHING (MPX/ON) 03,4 2SK381 SWITCHING(REC./ON) MICROPHONE R36 CIRCUIT / VR6 R38 C435 R37 4.7K Q23 , Q9 DTAI44ESTP SWITCHING (REC/ON) R35 47K R 62 023,24 2SD1330R AN7016NK REC/PLAYBACK AMP M5218L CLASS AA AMP MTZ5R6B 50 T C41 50VI C401 IC2(1/2) R19 R10 1.5M 47K C23 HDET Q5,6 2SJ40CD SWITCHING (PLAY/ON) REC /PLAYBACK HEAD 2 R64 (19.2V) D8 0.2V H 07,8 25K381 SWITCHING (REC./ON) 96 C21 1 25V 4.7 D R22] 0 014 0V 06V Q13,14,17,18 2SC2603EFG TPS TP6 TP7 Q15,16 2SC2603EFG SWITCHING (NORMAL/ON) IC301 Q19,20 2SC2603EFG SWITCHING (METAL/ON) JPC 1297CA DOLBY HX PRO \$ \$ \frac{1}{2} \f

0307 DTCI44A SWITCHING

(83V) -83V

Q303,304 2SBI237TAQR BIAS OSC CONTROL

Q305 2SD1858TAQR BIAS OSC CONTROL

R318

0301,302 2SC2603EFG BIAS 0SC CONTROL

- 4 -

\$ 5.2 \$ 5.2

Q808-810 DTAI44ESTP ATS CONTROL

- 5 **-**

\$ĕ\$

Addition

£*\$

Q308 DTA144ESTP SWITCHING

2SDI8

Q916 25B123 PLUNGER

10803 M5218L MSP AMP

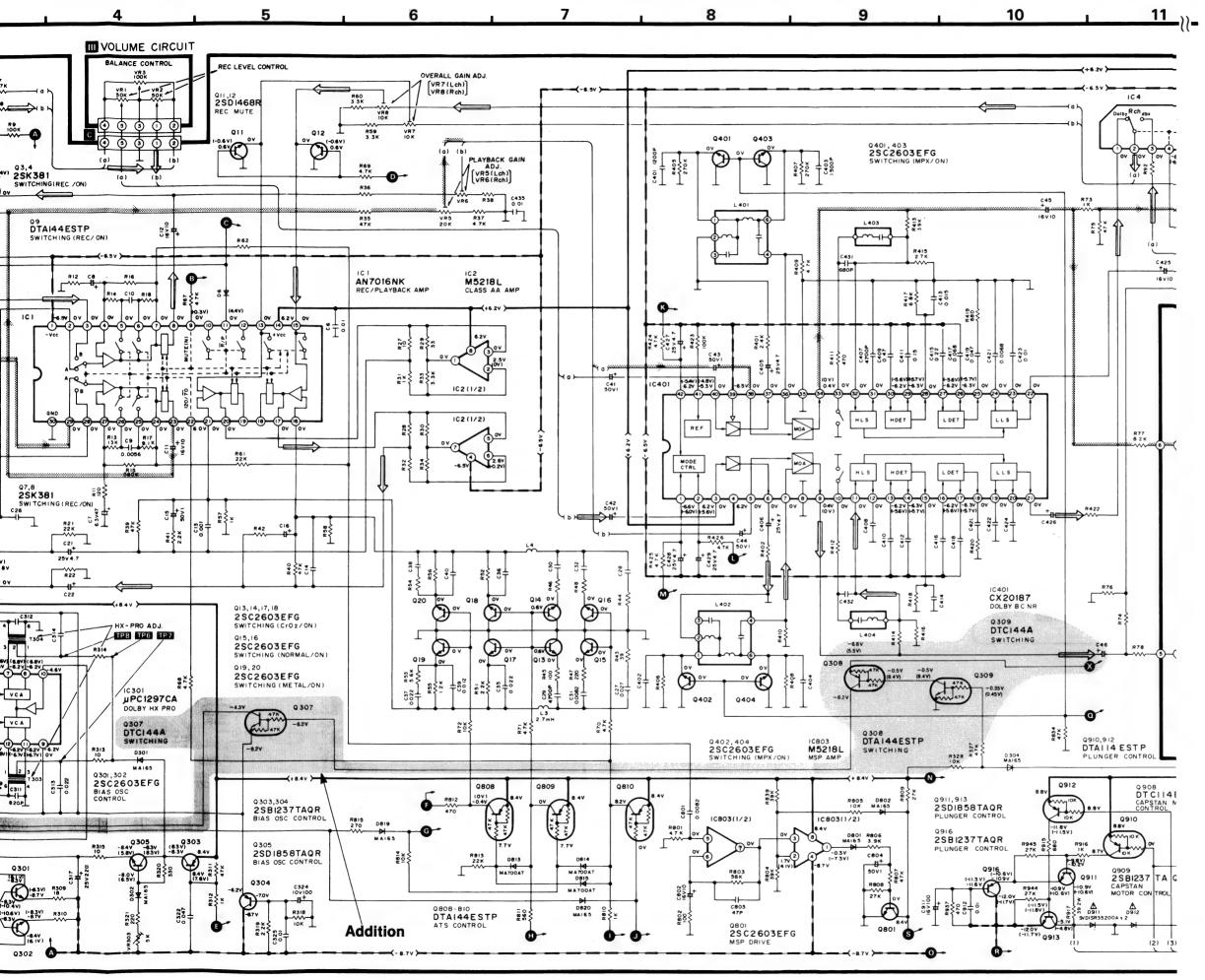
10803(1/2)

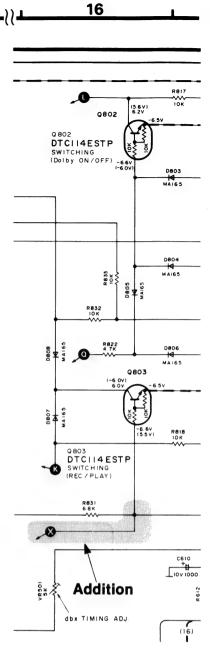
Q402,404 2SC2603EFG SWITCHING (MPX/ON)

Q801 2SC2603EFG

IC803(1/2)

820≥





FRANÇAIS

METHODES DES MEASURES ET REGLAGES

Appareils de mesurage

- Voltmètre électronique
- Oscilloscope
- Compteur de fréquence numérique
- Oscillateur de fréquence audio

- A.T.T. (Atténuateur)
- Voltmètre à C.C.
- Résistance (600Ω)

Reglage Azimutal de la tete

 Faire jouer la portion du réglage de l'azimuth (8kHz, -20dB) de la bande d'essai (QZZCFM). Ajuster la vis de la mise au point azimutale jusqu'à de que les sorties du canal de gauche et du canal de droite soient maximisées et que la forme d'onde de Lissajous, comme il est illustré, approche de 0 degré.

Nota:

Si le canal de gauche et canal de droite ne sont pas maximisés au même point, régler le point où les niveaux de chaque canal sont maximiséset égaux.

2. Effectuer le même r&e 19 mglage sur le mode d'audition.

Vérification de la différence de niveau pour les deux sens de rotation

- Introduire une bande métal vierge prévue pour les essais (QZZCPZ) et vérifier que la différence de niveau pour lés déux sens de rotation est inférieure à 1dB.
- 4. Après cela, mettre une goutte de vernis de blocage sur la vis de réglage de l'azimut.

Reglage de la Vitesse de Defilement

- Faire jouer la portion mèdiane de la bande d'essai (QZZCWAT).
- Régler le régulateur de tesnion dans le moteur detelle sorte que la sortie soit en deçà de la valeur standard.

Reglage de L'amplification de Lecture

- Faire jouer la partie réglée de l'amplification (315 Hz, 0 dB) de la bande d'essai (QZZCFM).
- Régler VR5 (canal de gauche) et VR6 (canal de droite) de telle sorte que la sortie soit en deçà de la valeur standard.

Reponse en Frequence de la Lecture

- Faier jouer la partie de la réponse en fréquence (315Hz, 12.5kHz, -63Hz, -20dB) de la bande d'essai (QZZCFM).
- S'assurer que la réponse en fréquence soit en deçà de la plage montrée dans la Fig. 6, à la fois pour le canal de gauche et le canal de droite.

Reponse en Frequence Totale

- Introduire la bande d'essai vierge normale (QZZCRA) et régler l'appareil sur le mode d'intermission d'un disque.
- Appliquer un signal d'entrée de référence (1kHz, -24dB) par l'intermédiaire d'un atténuateur.
- Diminuer le signal de 20dB et régler la fréquence de 50Hz~15kHz.
- 4. Enregistrer le balayage de fréquence.
- Faire jouer le signal enregistré et s'assurer qu'il soit en deçà de la plage montrée à la Fig. 8 en comparaison à la fréquence de référence (1 kHz).
- S'II n'est pas en deçá de la plage standard, régler VR301 (canal de gauche) et VR302 (canal de droite) de telle sorte que le niveau de fréquence soit en deçá de la plage standard

RS-B608R

FRANÇAIS

- Répéter les étapes 2~6 ci-dessus en utilisant la band CrO₂ (QZZCRX) et la bande métallisée (QZZCRX) en augmentant la plage de fréquence à 16kHz (50 Hz~16kHz).
- S'assurer que le niveau soit en deçà de la plage montréeà la Fig. 9.

Reglage de L'amplification Totale

- Introduire la bande d'essai vierge normale (QZZCRA) et régler l'appareil sur le mode d'intermission d'un disque.
- Appliquer un signal d'entrée de référence (1kHz, -24dB). Diminuer la sortie de telle sorte que son niveau devienne de 0.4V.
- 3. Enregistrer ce signal d'entrée.

- 4. Faire jouer le signal enregistré à l'étape 3 ci-dessus, et s'assurer que la sortie en deçè de la valeur standard.
- Si elle n'est pas en deçà de la valeur standard, régler VR7 (canal de gauche) et VR8 (canal de droite).
- Répéter les étapes 2~5 ci-dessus jusqu'à ce que la sortie soit en deçà de la valeur standard.

Reglage du Mesureur Fluorescent

- Introduire la bande d'essai vierge normale (QZZCRA) et appliquer un signal d'entrée de référence (1 kHz, -24 dB) sur le mode d'intermission d'un disque.
- En utilisant un atténuateur, le régler jusqu'à ce que la tension des bornes "LINE OUT" (sortie de ligne) des platines de magnétophones soit de 0.4V.
- Ajuster VR701 de telle sorte que le segment "0dB" soit légèrement éclairé.

Réglage de la synohronisation dbx

- Placer l'interrupteur du réducteur de bruit sur la position dbx.
- Lire la partie de la bande d'essai (QZZCFM) qui contient l'enregistrement prévu pour le réglage du gain.
- 3. Brancher un voltmètre entre TP501 et TP502.
- 4. Régler VR501 de manière que la sortie ait la valeur standard.

Réglage de HX-PRO

- Introduire une bande métal vierge prévue pour lee essais (QZZCRZ) et régler l'appareil en mode pause d'enregistrement.
- Brancher un voltmètre continu entre TP-7 (L-CH) et TP-6, et TP-8 (R-CH) et TP-6.
- Régler L303 (L-CH) et L-304 (R-CH) de manière que la sortie ait la valeur standard.

— 3 —

-- 4 ---

,

ESPAÑOL

METODOS DE AJUSTE Y MEDIDA

Instrumento de medición

- EVM (Voltimetro electrónico)
- Osciloscopio
- Frecuencimetro digital
- Oscilador AF

- ATT (Atenuador)
- Voltimetro CC
- Resistor (600Ω)

Ajuste Azimutal de Cabeza

 Reproducir la porción de ajuste azimutal (8kHz, -20dB) de la cinta de prueba (QZZCFM). Variar el tornillo de ajuste azimutal hasta que las salidas del CH-I y CH-D se maximicen y forma de onda de lissajous, como ilustrado, se acerque a grado 0.

Nota:

- Si CH-I y CH-D no son maximizados en el mismo punto, ajustar al punto donde los niveles de cada canal sean maximizados e igualados.
- Efectuar el mismo ajuste en la modalidad de reproducción.

Comprobación de la diferencia de nivel de giro hacia adelante y hacia atrás

- Reproduzca la parte del adjuste de ganancia (315Hz, 0dB) de la cinta de prueba (QZZCFM) y luego asegúrese de que la diferencia de nivel de giro hacia adelante y hacia atrás sea menor que 1dB.
- Después del ajuste, aplique pintura de fijación al tornillo de ajuste del azimut.

Ajuste de Velocidad de Cinta

- 1. Reproducir la porción de la cinta prueba (QZZCWAT).
- Ajustar el VR en el motor de manera que salida esté dentro del valor estándar.

Ajuste de Ganancia de Reproduccion

- Reproducir la porción ajustada de ganancia (315 Hz, 0 dB) de la cinta de prueba (QZZCFM).
- Ajustar VR5 (CH-I) y VR6 (CH-D) de manera que la salida esté dentro del valor estándar.

Respuesta de Frecuencia de Reproduccion

- Reproducir la parte de respuesta de frecuencia de reproducción (315 Hz, 12.5 kHz~63 Hz, -20 dB) de la cinta de prueba (QZZCFM).
- Asegurarse de que la respuesta de frecuencia esté dentro de la gama mostrada en la Fig. 6 para ambos CH-I y CH-D.

Respuesta de Frecuencia Total

- Poner una cinta virgen normal (QZZCRA) y poner la unidad en la modalidad de Pausa de Grabación.
- Aplicar la señal de entrada de referencia (1 kHz, -24 dB) a través de un atenuador.
- Atenuar la señal por 20dB y ajustar la frecuencia de 50Hz~15kHz.
- 4. Grabar el barrido de frecuencia.
- Reproducir la señal grabada y asegurarse de que esté dentro de la gama mostrada en la Fig. 8 en comparación con la frecuencia de referencia (1kHz).
- Si no está dentro de la gama de frecuencia, ajustar VR301 (CH-I) y VR302 (CH-D) de manera que el nivel de frecuencia esté dentro de la gama estándar.
- Repetir los pasos 2~6 de arriba utilizando la cinta CrO₂ (QZZCRX) y la cinta metálica (QZZCRZ) incrementando la gama de frecuencia a 16kHz (50Hz~16kHz).
- Asegurarse de que el nivel est&e 19 mdentro de la gama mostrada en la Fig. 9.

Ajuste de Ganancia Total

- Insertar la cinta de prueba en blanco normal (QZZCRA) y poner la unidad en modalidad de pausa de Grabación.
- Aplicar la señal de entrada de referencia (1kHz, -24 dB). Atenuar la salida de manera que su nivel se haga 0.4V.
- 3. Grabar la señal de entrada.

- Reproducir la señal grabada en el paso 3 de arriba y asegurarse de que la salida esté dentro del valor estándar.
- Si no está dentro del valor estándar, ajustar VR7 (CH-I) y VR8 (CH-D).
- Repetir el paso 2~5 de arriba hasta que la salida esté dentro del valor estándar.

Ajuste de Medidor de Fluorescente

- Insertar la cinta de prueba en blanco normal (QZZCRA) y aplicar una señal de entrada de referencia (1 kHz, -24 dB) en la modalidad de Pausa de Grabación.
- Utilizando un atenuador, ajustarlo hasta que la tensión de los terminales "LINE OUT" (salida de linea) de las platinas de cinta sea 0.4V.
- 3. Ajustar VR701 de manera que el segmento "0dB" esté ligeramente iluminado.

Ajuste de la Sincronizacion dbx

- Ponga el conmutador de reducción del ruido en la posición dbx.
- Reproduzca la parte del ajuste de ganancia (315 Hz, 0 dB) de la cinta de prueba (QZZCFM).
- 3. Conecte un voltimetro de CC cntre TP501 y TP502.
- Regule VR501 de modo que la salida esté dentro de los valores estándares.

Ajuste de HX-PRO

- Inserte la cinta de prueba metálica en blanco (QZZCRZ) y ponga el aparato en la modalidad de pausa de grabación.
- Conecte un voltimetro de CC entre TP7 (L-CH) y TP6, TP8 (R-CH) y TP6.
- Regule L303 (L-CH) y L304 (R-CH) de modo que la salida esté dentro de los valores estándares.

Printed in Japan H880401430MY/MT

Cassette Deck

RS-B608R

DEUTSCH

MESSUNGEN UND EINSTELL METHODEN

MeBinstrumente

- Elektronisches Voltmeter (EVM)
- Oszilloskop
- Digitaler Frequenzmesser
- Audiofrequenz-Oszillator

- Dämpfungswiderstand
- Gleichstrom-Voltmeter
- Widerstand (600Ω)

Tonkopf-Azimuteinstellung

 Spielen Sie auf dem Testband (QZZCFM) den Teil für die Azimuteinstellung (8kHz, -20dB) ab. Drehen Sie die Azimuteinstellschraube so lange, bis die Abgaben des L-K und R-K den Höchstwert erreichen, und die Lissajosscghe wellenfigur sich, wie abgebildet, 0 Grad nähert.

Anmerkung:

When L-K und R-K nicht auf demselben Punkt ihren Höchstwert erreichen, stellen Sie beide Kanäle auf den jeweiligen Höchstwert und gleichen dann aus.

Nehmen Sie denselben Einstellvorgang in der Wiedergabestellung vor.

Prüfung des Pegelunterschiedes bei Vorwärtsund Rückwärtsdrehung

- Den Abschnitt für Verstärkungseinstellung (315 Hz, 0dB) des Prüfbandes (QZZCFM) wiedergeben und sicherstellen, daß der Pegelunterschied bei Vorwärtsund Rückwärtsdrehung kleiner als 1dB ist.
- Nach der Einstellung Schrauben-Sicherungsmittel an die Azimuth-Einstellschraube geben.

Bandgeschwindigkeitseinstellung

- 1. Spielen Sie den Mittelteil des Testbands (QZZCWAT) ab.
- Stellen Sie den VR im Motor so ein, daß die Abgabe den Normwert erfüllt.

Einstellung der Wiedergabeverstärkungsregelung

- Spielen Sie auf dem Testband (QZZCFM) den Teil für die Einstellung der Verstärkungsregelung (315 Hz, 0dB) ab.
- Stellen Sie VR5 (L-K) und VR6 (R-K) so ein, daß die Abgabe den Normwert erfüllt.

Wiedergabefrequenzaang

- Spielen Sie auf dem Testband (QZZCFM) den Teil für den Frequenzgang (315Hz, 12,5kHz~63Hz, -20dB) ab.
- Achten Sie darauf, daß der Frequenzgang für beide Kanäle (L-K, R-K) in dem in Abb. 6 gezeigten Bereich liegt.

Gesamtfrequenzgang

- Legen Sie das normale Leertestband (QZZCRA) ein und stellen das Gerät auf Aufnahme-/Pause-Betrieb.
- Geben Sie über einen Lautstärkeregler ein Bezugseingabesignal (1 kHz, -24 dB) ein.
- Stellen Sie das Signal auf 20dB und justieren die Frequenz von 50 Hz~15 kHz.
- 4. Nehmen Sie das Wobbelsignal auf.
- Geben Sie das aufgenommene Signal wieder und achten darauf, daß dieses sich im Vergleich zur Bazugsfrequenz (1kHz) in dem in Abb. 8 aufgezeichneten Bereich befindet.
- Sollte das Signal nicht im Normbereich liegen, justieren Sie VR301 (L-K) und VR302 (R-K) so, daß der Frequenzpegel mit der Norm übereinstimmt.
- Wiederholen Sie die Schritte 2~6 und verwenden das CrO₂ Band (QZZCRX) und das Metallband (QZZCRZ). Der Frequenzbereich wird auf 16kHz (50Hz~16kHz) angehoben.
- Achten Sie darauf, daß sich der Frequenzpegel in dem in Abb. 9 aufgezeigten Bereich befindet.

Einstellung der Gesamtverstärkungsregelung

- Legen Sie das normale Leertestband (QZZCRA) ein und stellen das Gerät auf Aufnahme-/Betrieb.
- Legen Sie ein Bezugseingabesignal (1kHz, -24dB) an. Stellen Sie das Ausgangssignal auf einen Pegel von 0.4V ein.
- 3. Nehmen Sie das Eingabesignal auf.

- Geben Sie das in Schritt 3 oben aufgenommene Signal wieder und achten Sie darauf, daß das Ausgangssignal mit dem Normwert übereinstimmt.
- Sollte der Wert nicht innerhalb der Norm liegen, justieren Sie VR7 (L-K) und VR8 (R-K).
- Wiederholen Sie die Schritte 2~5 von oben so lange, bis das Ausgangssignal im Normbereich liegt.

Fluoreszenzanzeigeneinstellung

- Legen Sie das normale Leertestband (QZZCRA) ein und geben bei Aufnahme-/Pause-Betrieb ein Bezugseingabesignal (1kHz, -24dB) ein.
- Verwenden Sie einen Lautstärkeregler und stellen Sie diesen so ein, daß an den "LINE OUT"-Anschlüssen des Kassettendecks 0.4V anliegen.
- Justieren Sie VR701 so, daß der "-0dB"-Abschnitt der Anzeige schwach auflenuchtet.

dbx TAKTEINSTELLUNG

- 1. Den Rauschunterdrückungs-Schalter auf dbx stellen.
- Den Abschnitt für Verstärkungseinstellung (315 Hz, 0 dB) des Prüfbandes (QZZCFM) wiedergeben.
- Einen Gleichstrom-Voltmeter zwischen TP501 und TP502 anschließen.
- VR501 so einstellen, daß der Ausgang dem Sollwert entspricht.

HX-PRO EINSTELLUNG

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- Die leere Metallband-Prüfkassette (QZZCRZ) einsetzen und das Gerät auf Aufnahmepause schalten.
- Einen Gleichstrom-Voltmeter zwischen TP7 (linker Kanal) und TP6 sowie zwischen TP8 (rechter Kanal) und TP6 anschließen.
- L303 (linker Kanal) und L304 (rechter Kanal) so einstellen, daß der Ausgang dem Sollwert entspricht.